

University of  
Lethbridge



2022/23

# UNIVERSITY OF LETHBRIDGE

**UNDERGRADUATE** CALENDAR AND COURSE CATALOGUE



University of  
Lethbridge



# Undergraduate Calendar and Course Catalogue 2022/2023

**The University of Lethbridge Calendar and Course Catalogue is also available online at  
[www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar)**

*This Calendar sets forth the intention of the University, at the time of its publication, with respect to all matters contained therein. The University reserves the right at any time to deviate from what appears in the Calendar, either in order to serve the best interests of the University, or because of circumstances or occurrences beyond the University's reasonable control. The University expressly denies responsibility or liability to any person who may suffer loss or who may be otherwise adversely affected by such change. The Calendar is updated annually. If necessary, a list of corrections and post-publication updates to the print edition of the 2022/2023 Calendar, which have been changed in the online edition, will be posted at [www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar). Check this web page regularly to keep informed of changes.*



# TABLE OF CONTENTS

<b>INTRODUCTION</b> .....	<b>5</b>	<b>ACADEMIC REGULATIONS</b> .....	<b>51</b>
Territorial Acknowledgment .....	6	Introduction .....	52
The University .....	6	Academic Regulations .....	52
Mandate Statement.....	7	Program Requirements .....	57
Our Promise.....	7	Student Policies .....	62
Destination 2022 .....	7	<b>GRADUATION</b> .....	<b>65</b>
Our Fundamental Principles.....	8	Application for Graduation .....	66
The University Shield .....	9	Credential .....	66
University of Lethbridge Principles of Student		Names on Parchments.....	66
Citizenship .....	9	Issuance of a Parchment .....	66
Notices to Students Regarding the Collection of		Awarded Posthumously.....	66
Personal Data .....	10	Revoking Degrees .....	66
University Organization .....	12	<b>CONVOCATION</b> .....	<b>67</b>
Awards of Excellence .....	13	Convocation Invitation .....	68
Errata and Addenda .....	13	Conferral .....	68
<b>ACADEMIC SCHEDULE</b> .....	<b>15</b>	Convocation Attendance.....	68
Introduction .....	16	Academic Dress.....	69
Summer Term.....	17	Recognition and celebratory dress .....	70
Fall Term.....	19	<b>UNIVERSITY OF LETHBRIDGE INTERNATIONAL</b> ..	<b>71</b>
Spring Term .....	20	International Students .....	72
<b>ADMISSION</b> .....	<b>21</b>	Exchange Students .....	72
Introduction .....	22	Visiting Students.....	72
Admission Procedures .....	22	International Student Advising.....	72
General Admission .....	22	English For Academic Purposes (EAP) .....	73
Additional Admission Requirements by Program .....	23	<b>UNIVERSITY LIBRARY</b> .....	<b>75</b>
Application Deadlines.....	23	General Philosophy and Information.....	76
General Admission Routes and Academic Qualifications .....	23	Services .....	76
International Students .....	29	Instruction .....	77
English Language Requirements .....	30	Collections.....	77
Admission Documents .....	31	Policies and Regulations.....	78
Conditional Admission .....	32	<b>SCHOOL OF LIBERAL EDUCATION</b> .....	<b>79</b>
Transfer Credit.....	32	General Philosophy .....	80
Information for Incoming Visiting Students .....	34	Advising and Information.....	81
Information for Incoming Exchange Students .....	34	Liberal Education List Requirement .....	81
General Policies for all Applicants .....	34	Liberal Education Lists .....	82
Caveat - Authority to Rescind Admission/Registration		<b>FACULTY OF ARTS AND SCIENCE</b> .....	<b>87</b>
Privileges .....	35	Philosophy and Programs .....	89
<b>REGISTRATION</b> .....	<b>37</b>	Advising and Information.....	89
Student Records Retention Policy .....	38	Admission.....	89
Advice and Information .....	38	Academic Standards.....	90
Terms Used During Registration.....	38	Institutional Honours.....	90
When to Register .....	40	Visiting Student Authorization .....	91
Order of Priority Registration .....	40	Arts and Science Disciplines .....	91
Registration Limitations .....	40	Applied Studies and Co-operative Education .....	91
Classroom Privileges .....	41	Independent Study.....	91
Course Registration .....	42	Topics Courses .....	92
Withdrawal .....	42	Cross-Listed Courses .....	92
Appeal of Registration .....	42	Undergraduate Thesis Courses ('Honours Thesis'	
<b>FEES</b> .....	<b>43</b>	Designation).....	92
Disclaimer.....	44	Bachelor of Arts (B.A.) .....	94
Self-service Resources and General Information.....	44	Bachelor of Science (B.Sc.) .....	95
Payments.....	45	Bachelor of Arts and Science (BASc.) .....	95
Cancellations, Refunds and Withdrawals.....	46	Majors .....	96
Non-refundable Application and Registration Fees .....	46	Minors .....	135
Non-refundable Deposits.....	46	Concentrations .....	135
Fees.....	47	Combined Degrees .....	135
Important Dates and Fee Deadlines .....	50		



B.A., B.Sc. or B.A.Sc. After an Approved Degree .....	136	Double Majors .....	231
B.A. or B.Sc. After Completion of a Professional Degree .....	136	Combined Degrees .....	232
Post-Diploma Degree Programs .....	136	Finance Diploma .....	232
Indigenous Student Success Cohort .....	142	Certificate in Management .....	233
Nursing Preparation Program .....	143	Post-Bachelor Certificate .....	235
Pre-Professional Transfer Program in Engineering .....	143	Combined Post-Bachelor Certificates .....	237
Professional Transfer Programs .....	143		
Certificate in Arts and Science .....	145	<b>SOCIAL WORK (UNIVERSITY OF CALGARY) - LETHBRIDGE DIVISION .....</b>	<b>239</b>
<b>FACULTY OF EDUCATION .....</b>	<b>149</b>	Advice and Information .....	240
Philosophy .....	150	Bachelor of Social Work Program .....	240
Guiding Principles of Teacher Education .....	150	Admission .....	240
Education Programs .....	150	Program Requirements .....	240
Advising .....	151	<b>COMBINED DEGREES .....</b>	<b>243</b>
Admission to Bachelor of Education Programs .....	151	General Information .....	245
Admission to Other Education Programs .....	153	Advising .....	245
Requirements for Bachelor of Education Programs .....	153	Bachelor of Arts/Bachelor of Education or Bachelor of Science/Bachelor of Education .....	245
Policies and Regulations .....	156	Bachelor of Fine Arts - Art/Bachelor of Education .....	268
Education Minors .....	159	Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education .....	271
Education Specializations .....	165	Bachelor of Fine Arts - New Media/Bachelor of Education .....	274
Diploma Program in Education (D.P.E.) .....	166	Bachelor of Music/Bachelor of Education .....	277
<b>FACULTY OF FINE ARTS .....</b>	<b>167</b>	Bachelor of Management/Bachelor of Education .....	280
General Philosophy and Programs .....	168	Bachelor of Arts/Bachelor of Management or Bachelor of Science/Bachelor of Management .....	284
Advising and Information .....	168	Bachelor of Fine Arts - New Media/Bachelor of Science (Computer Science) .....	307
Admission .....	168	Bachelor of Fine Arts - New Media/Bachelor of Management .....	308
Academic Standards .....	171	Bachelor of Health Sciences/Bachelor of Management .....	311
Institutional Honours .....	172	Post-Diploma Combined Degrees Programs in Fine Arts and Education .....	314
Applied Studies and Co-operative Education .....	172	Post-Diploma Bachelor of Management/Bachelor of Education .....	319
Independent Study .....	172	<b>MINORS .....</b>	<b>323</b>
Topics Courses .....	173	General Philosophy .....	324
Degree Programs .....	173	Advising and Information .....	324
Double Majors .....	192	General Policies .....	324
Art Gallery .....	192	Minors Options .....	324
University Theatres .....	192	<b>APPLIED STUDIES AND CO-OPERATIVE EDUCATION .....</b>	<b>339</b>
Conservatory of Music .....	192	General Philosophy and Information .....	340
<b>FACULTY OF HEALTH SCIENCES .....</b>	<b>193</b>	Applied Studies .....	340
General Philosophy .....	194	Co-operative Education .....	340
Advice and Information .....	194	<b>COURSE CATALOGUE .....</b>	<b>343</b>
Admission .....	194	Course Subject Abbreviations .....	344
Applied Studies And Co-operative Education .....	198	Where to Get More Information .....	344
Independent Study .....	198	Course Numbering System .....	344
Policies and Regulations .....	198	Definitions .....	344
Degree Programs .....	200	Fees .....	346
<b>DHILLON SCHOOL OF BUSINESS .....</b>	<b>207</b>	Timetable .....	347
Philosophy and Programs .....	209	Disclaimer .....	347
Dhillon School of Business Campuses .....	209	How to Read a Course Description .....	347
Advising and Information .....	209	<b>AWARDS AND SCHOLARSHIPS .....</b>	<b>527</b>
Admission .....	210	Application for Awards .....	528
Undergraduate Thesis Course (Honours Thesis Designation) .....	212	Awards .....	530
Academic Standards .....	213	Financial Assistance .....	531
Regulations that Apply to Courses Taken in Dhillon School of Business Programs .....	213	<b>GLOSSARY .....</b>	<b>533</b>
Graduation .....	214		
Institutional Honours .....	216		
Bachelor of Management (B.Mgt.) .....	216		
Bachelor of Management (B.Mgt.) Majors .....	217		
Post-Diploma Bachelor of Management .....	224		
Post-Diploma Bachelor of Management Majors .....	225		
Post-Diploma Bachelor of Management (25-course) .....	230		
Bachelor of Management as a Second Degree .....	231		

# INTRODUCTION

<b>1. TERRITORIAL ACKNOWLEDGMENT. ....</b>	<b>6</b>	<b>9. NOTICES TO STUDENTS REGARDING THE</b>	<b>10</b>
<b>2. THE UNIVERSITY .....</b>	<b>6</b>	<b>COLLECTION OF PERSONAL DATA .....</b>	<b>10</b>
a. Programs .....	6	a. The Collection of Personal Information .....	10
<b>3. MANDATE STATEMENT.....</b>	<b>7</b>	b. The Official Student Record.....	10
<b>4. OUR PROMISE.....</b>	<b>7</b>	c. Faculty/School Records.....	10
<b>5. DESTINATION 2022.....</b>	<b>7</b>	d. Library .....	11
a. Where we are going .....	7	e. Scholarships and Student Finance .....	11
b. Who we are .....	7	f. Housing Services .....	11
c. Why we exist.....	8	g. Information Technology Services .....	11
<b>6. OUR FUNDAMENTAL PRINCIPLES .....</b>	<b>8</b>	h. Financial Services .....	11
a. Our Commitment to Society.....	8	i. Health Centre .....	11
b. Our Commitment To Creativity, Inquiry,		j. Sport and Recreation Services.....	12
And Discovery .....	8	k. Intercollegiate and Club Athletics.....	12
c. Our Commitment To Students.....	8	l. Faculty of Fine Arts.....	12
d. Our Commitment To Responsible Action ....	8	m. Campus Safety.....	12
<b>7. THE UNIVERSITY SHIELD .....</b>	<b>9</b>	n. University of Lethbridge Students and the	
<b>8. UNIVERSITY OF LETHBRIDGE PRINCIPLES</b>		Alberta Workers' Compensation Board. ....	12
<b>OF STUDENT CITIZENSHIP.....</b>	<b>9</b>	<b>10. UNIVERSITY ORGANIZATION .....</b>	<b>12</b>
a. Preamble .....	9	a. Leadership .....	12
b. Fundamental Principles of Student		b. Academic Staff.....	13
Citizenship.....	9	<b>11. AWARDS OF EXCELLENCE .....</b>	<b>13</b>
		a. University of Lethbridge Awards.....	13
		b. Achievements of Excellence.....	13
		<b>12. ERRATA AND ADDENDA .....</b>	<b>13</b>

## I. TERRITORIAL ACKNOWLEDGMENT

Oki, and welcome to the University of Lethbridge. Our University's Blackfoot name is Iniskim, meaning Sacred Buffalo Stone. The University of Lethbridge acknowledges and deeply appreciates the Siksikaitsitapii peoples' connection to their traditional territory. We, as people living and benefiting from Blackfoot Confederacy traditional territory, honour the traditions of people who have cared for this land since time immemorial. We recognize the diverse population of Aboriginal peoples who attend the University of Lethbridge and the contributions these Aboriginal peoples have made in shaping and strengthening the University community in the past, present, and in the future.

Policy: [www.ulethbridge.ca/policy/resources/territorial-acknowledgement](http://www.ulethbridge.ca/policy/resources/territorial-acknowledgement)

## 2. THE UNIVERSITY

The University of Lethbridge is incorporated under the provisions of the Post-secondary Learning Act of the Province of Alberta with membership in the Association of Commonwealth Universities and Universities Canada. The University of Lethbridge participates with the universities and other post-secondary institutions of Alberta in a variety of co-operative programs and activities.

The University of Lethbridge was established in 1967 with a student population of 638. It has grown to a current population of more than 8,800 full-time and part-time students, with approximately 766 graduate students and 600 international students from more than 90 countries. The University also offers programs at our Calgary Campus, serving nearly 600 students. There are more than 48,000 University of Lethbridge alumni worldwide.

The University is situated on over 550 acres of traditional Blackfoot territory in west Lethbridge. University Hall, designed by architect Arthur Erickson, has received international acclaim for its architectural originality and functional design.

Lethbridge has a population of more than 100,000 and is located in southern Alberta, approximately 145 kilometres east of the Canadian Rockies and 95 kilometres north of the United States border.

In Fall 2019, we opened Science Commons, our new science and academic building, Canada's most advanced facility for teaching and research in the sciences. It gives our students an incredible advantage as they work alongside faculty members and students from across disciplines to tackle the most perplexing issues facing our society today.

In the 2022 Maclean's University Rankings, the University of Lethbridge ranked first in the Medical/Science Grants category and second in the Student Satisfaction Rankings of Experiential Learning Opportunities category (primarily undergraduate classification).

### a. Programs

The University of Lethbridge offers Canada's premier learning experience. It is grounded in liberal education and committed to providing its students with small classes, a personal experience, and the most vital and engaging learning environment in the country.

The University offers undergraduate programming as follows:

The Faculty of Arts and Science offers instruction leading to the following degrees: Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.) and Bachelor of Arts and Science (B.A.Sc.). The Faculty also offers a Certificate in Arts and Science, a Post-Diploma Bachelor of Arts in Agricultural Studies, as well as Post-Diploma Bachelor of Science degrees in Agricultural Studies, Computer Science, Environmental Science, and Geography with a Concentration in Geographical Information Science.

The Faculty of Education offers instruction leading to the Bachelor of Education (B.Ed.) degree. The Faculty also offers the Diploma in Education (D.P.E.) program for certified practicing educators.

The Faculty of Fine Arts offers instruction leading to the following degrees: Bachelor of Arts (B.A.), Bachelor of Fine Arts - Art (B.F.A. - Art), Bachelor of Fine Arts - Dramatic Arts (B.F.A. - Dramatic Arts), Bachelor of Fine Arts - Indigenous Art (B.F.A. - Indigenous Art), Bachelor of Fine Arts - Multidisciplinary (B.F.A. - Multidisciplinary), Bachelor of Fine Arts - New Media (B.F.A. - New Media), and Bachelor of Music (B.Mus.), as well as a number of post-diploma programs leading to these degrees.

The Faculty of Health Sciences, in collaboration with Lethbridge College, prepares baccalaureate graduates as beginning practitioners in the Nursing Education in Southwestern Alberta (NESA) program, Bachelor of Nursing (B.N.) and Bachelor of Nursing After Degree. The Faculty also offers the Bachelor of Health Sciences (B.H.Sc.) degree in Aboriginal Health, Addictions Counselling, and Public Health and offers the Bachelor of Therapeutic Recreation (B.T.R.) degree. A post-diploma degree program is also available for the Aboriginal Health, Addictions Counselling, and Public Health majors in the Bachelor of Health Sciences degree.

The Dhillon School of Business offers instruction leading to the Bachelor of Management (B.Mgt.) degree as well as post-diploma programs. The School also offers a Finance Diploma, certificate programs, and the Post-Bachelor Certificate in Accounting Fundamentals and Advanced Accounting programs.

The University offers instruction leading to the following Combined Degrees:

Bachelor of Arts/Bachelor of Education (B.A./B.Ed.)

Bachelor of Science/Bachelor of Education (B.Sc./B.Ed.)

Bachelor of Fine Arts - Art/Bachelor of Education (B.F.A. - Art/B.Ed.)

Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education (B.F.A. - Dramatic Arts/B.Ed.)

Bachelor of Fine Arts - New Media/Bachelor of Education (B.F.A. - New Media/B.Ed.)

Bachelor of Music/Bachelor of Education (B.Mus./B.Ed.)

Bachelor of Management/Bachelor of Education (B.Mgt./B.Ed.)

Bachelor of Arts/Bachelor of Management (B.A./B.Mgt.)

Bachelor of Science/Bachelor of Management (B.Sc./B.Mgt.)



Bachelor of Fine Arts - New Media/Bachelor of Management (B.F.A. - New Media/B.Mgt.)

Bachelor of Fine Arts - New Media/Bachelor of Science (B.F.A. - New Media/B.Sc.)

Bachelor of Health Sciences/Bachelor of Management (B.H.Sc./B.Mgt.)

Post-Diploma Bachelor of Fine Arts - Art/Bachelor of Education (B.F.A. - Art/B.Ed.)

Post-Diploma Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education (B.F.A. - Dramatic Arts/B.Ed.)

Post-Diploma Bachelor of Music/Bachelor of Education (B.Mus./B.Ed.)

Post-Diploma Bachelor of Management/Bachelor of Education (B.Mgt./B.Ed.)

The University also offers programs for transfer to professional faculties at other universities in Dentistry, Engineering, Journalism, Law, Medicine, Social Work, and Veterinary Medicine.

A four-year Bachelor of Social Work (B.S.W.) is offered by the University of Calgary, in co-operation with the University of Lethbridge, on the Lethbridge campus.

The School of Graduate Studies offers instruction leading to the following credentials: Graduate Certificate, Graduate Diploma, Master of Arts (M.A.), Master of Counselling (M.C.), Master of Education (M.Ed.), Master of Fine Arts (M.F.A.), Master of Health Services Management (M.H.S.M.), Master of Music (M.Mus.), Master of Nursing (M.N.), Master of Science (M. Sc.), Master of Science (Management) (M.Sc. (Mgt.)), and Doctor of Philosophy (Ph.D.) in the sciences, multidisciplinary areas and education.

### 3. MANDATE STATEMENT

The University of Lethbridge is a public, board-governed university operating as a Comprehensive Academic and Research University under the authority of the Post-secondary Learning Act of Alberta.

The mandate statement is developed by the University of Lethbridge in consultation with the Minister of Advanced Education pursuant to Section 78 of the Post-secondary Learning Act (PSLA).

To view the entire mandate, please visit [www.ulethbridge.ca/governance/mandate](http://www.ulethbridge.ca/governance/mandate).

### 4. OUR PROMISE

To our students, we make a promise:

- A promise to do our best, so they can be their best.
- A promise to foster exploration, to share ideas and information, to teach but also to learn.
- A promise to build the buildings, acquire the technology, cultivate the partnerships, and welcome the people essential to advancing an environment that excites and ignites learning.
- A promise to create an environment where professors and students are colleagues and everyone grows together, an environment that recognizes the power of every student's dream. And helps that dream come true.

### 5. DESTINATION 2022

#### a. Where we are going

We will be Canada's destination for all who seek a comprehensive, liberal education-based university that promotes a diverse and inclusive environment and inspires research-informed teaching and learning, creative discovery, scholarship, professional endeavour, experiential opportunities, and community engagement.

#### b. Who we are

The University of Lethbridge is Alberta's Destination University. Founded in 1967 on traditional Blackfoot land, we are a community that fosters an atmosphere of discovery, a welcoming place where students and faculty have the freedom to think, create and explore together. People are the essential resource of our institution; they define our university and are our greatest strength.

We are committed to the individual student as a person of ultimate worth. Our students learn within and beyond the classroom in research-intensive environments that offer connections with the diverse communities we serve. Students are taught by inspired scholars who integrate research and creativity with teaching.

Our motto, *Fiat Lux* ("Let There be Light"), and our founding principle of liberal education, continue to define and inspire us. We are committed to being the comprehensive academic and research university in Alberta that empowers individuals with broader knowledge and prepares them to think critically and creatively, communicate clearly, solve complex problems, and contribute fully to society. We give people more than an education: we give them a life trajectory and the tools to make a difference.

High quality is central to all that we do. Our commitment to maintaining high quality undergraduate and graduate academic programs is important to fostering a better society. High quality instruction and teaching are essential to our commitment to quality, as are the vibrant programs of research and creative activity that are a differentiating feature of our institution and a central part of our culture as a Comprehensive Academic and Research University. High quality facilities and services support our institution and its students, staff and academic staff.

The University of Lethbridge was born from the needs and aspirations of our local communities, and so access to our university is a foundational value. We are committed to providing student access to our high quality academic programs throughout the province, without creating unnecessary financial barriers. Community engagement with our university (and vice-versa) and the community use of our facilities are important to us.

Our liberal education foundation, combined with our student focus and research and creative excellence, enable a distinct student experience across two campuses in Alberta - Lethbridge and Calgary. The result is engaged citizens, who are intent on understanding relevant issues and on improving our region, our country and our world.

**c. Why we exist**

*The University of Lethbridge exists to build a better society and inspire the minds of tomorrow.*

- We create, discover, disseminate, and apply knowledge through free and critical inquiry and excellence in basic and applied research of regional and global impact.
- At the undergraduate and graduate levels, we develop creative discoverers and independent learners who understand their responsibility for critical thinking and scholarship.
- We prepare students for their personal and professional paths.
- We encourage and nurture creative expression.
- We pursue community engagement.
- We value, encourage and celebrate the talents and efforts of our students, faculty, staff, and alumni.

**6. OUR FUNDAMENTAL PRINCIPLES**

The University of Lethbridge is committed to the following fundamental principles:

**a. Our Commitment to Society**

We adopt a global perspective and cultivate responsible citizens who contribute to build better societies.

We encourage and protect free inquiry and expression, and model collegial and civil debate, dissent and controversy to critically explore and resolve issues.

We share with our communities our research, scholarship, creative activities, facilities, resources and initiatives, involving our communities wherever possible. This helps us anticipate and respond to societal needs.

We promote diversity and gender equity, and ensure equal opportunity for participation.

We are committed to collaborating with First Nations, Metis and Inuit peoples and communities to ensure that our partnerships, and ensuing programs, meet the needs of these communities.

**b. Our Commitment To Creativity, Inquiry, And Discovery**

We believe in academic freedom. Research and acquiring knowledge are inherent societal goods and ends in themselves.

We encourage and support research, scholarship, critical inquiry and creative performance, in all areas in which we teach, and in areas of special relevance locally, nationally and globally.

We conduct research in many forms, including that with the broadest scope and longest term, and communicate the outcome of these efforts. Wherever appropriate, we connect our research and scholarship to the needs and aspirations of the communities we serve.

We sustain, and provide access to, the scholarly resources and knowledge base needed for research, scholarship and creative activity.

**c. Our Commitment To Students**

We offer students a liberal education, the best preparation for their future, which provides a wide base of knowledge and promotes academic skills that students can apply broadly.

We are student-centred, and help students achieve their full potential by facilitating their intellectual growth and personal excellence in an atmosphere of engagement within and beyond the classroom.

We are a comprehensive university, offering excellence in undergraduate and graduate university education, and striving for a balance between our focus on teaching and our commitment to research, scholarship and creative activities.

We promote effective teaching and learning, applying face-to-face learning, experiential learning, and online and distance learning where those delivery modes make the best sense.

We strive for inspirational teaching and learning, which takes place in an environment of respect, free from discrimination.

We expand horizons and develop a global mindset, educating our students to become citizens of a complex society, capable of making important contributions.

**d. Our Commitment To Responsible Action**

We emphasize ethical action and are environmentally, socially and financially responsible.

We practice procedural fairness and act in accordance with all applicable codes of professional and ethical practice and conduct.

We use leading technology effectively, to facilitate and enhance learning and research relationships among students, faculty members and other University stakeholders.

*Approved by the Board of Governors  
December 2013*

## 7. THE UNIVERSITY SHIELD



The University of Lethbridge adopted its official Shield (shown left) in 1973, six years after the University's inception. Developed by a Senate committee with the leadership of University President Dr. William E. Beckel, the Shield design and Heraldic description was approved by the Senate on October 2, 1973 and ratified by the Board of Governors later that month.

The Shield was designed primarily in the University's colours of blue and gold. The gold sun on the blue shield represents southern Alberta. The blue and silver book above the gold and blue wreath represents the search for knowledge. The University's motto, 'Fiat Lux,' Latin for "Let there be light," is lettered on a band below the shield.

In 2003, the original design was simplified (shown right). The new shield brings focus to the fiery sun with twisted Aztec rays and to the motto, 'Fiat Lux.'



## 8. UNIVERSITY OF LETHBRIDGE PRINCIPLES OF STUDENT CITIZENSHIP

### a. Preamble

#### Definition

Student means any person, including a faculty or staff member, who is:

1. Registered or enrolled in one or more credit or non-credit courses and programs at the University of Lethbridge for the current or a future term; or
2. Registered or enrolled in any University-sponsored program.

#### Purpose and Scope

These Principles of Student Citizenship define the University of Lethbridge's expectations for the behaviour of its students.

#### Application

The Principles of Student Citizenship apply to all students at the University of Lethbridge. They outline the behaviour that the University of Lethbridge expects of its students while they are on University premises, on professional practice assignment, on paid and volunteer placements, or off-campus for academic or University purposes.

#### Philosophy Behind the Principles

The educational environment at the University of Lethbridge encourages intellectual exchange, creativity, originality and discovery. It also emphasizes free inquiry and expression, diversity, equality and equal opportunity for participation. The Principles of Student Citizenship are designed to support and protect this educational environment by defining students' responsibilities as members of the academic community. These principles operate within the framework provided by the institution's Statement of Philosophy, Vision, Mission and Fundamental Principles.

The University of Lethbridge has a tradition of academic integrity and personal civility. The Principles of Student Citizenship aim to promote and continue this tradition.

### b. Fundamental Principles of Student Citizenship

1. Students honour the following basic values of academic integrity:
  - a. Honesty in learning, teaching, research and service.
  - b. Respect of a wide range of thoughts, opinions and ideas; of colleagues, instructors and administration; and of the work of others.
  - c. Responsibility for upholding the integrity of scholarship and research.
2. Students conduct themselves in a manner consistent with the Fundamental Principles of the University of Lethbridge.
3. Students respect the rights of every student and faculty member to attain their educational goals fairly.
4. Students respect the health, safety and welfare of every member of the University of Lethbridge community.
5. Students respect and uphold the rights and freedoms of all members of the University of Lethbridge community, in accord with the principles articulated in the Canadian Charter of Rights and Freedoms.
6. Students treat with consideration the buildings, grounds, facilities and equipment of the University of Lethbridge.
7. Students strive to maintain collegial relationships with fellow students, peers, faculty, staff and administration.
8. Students abide by the policies, regulations, rules and procedures of the University of Lethbridge and its academic and administrative units.
9. Students abide by reasonable oral or written instructions given by University of Lethbridge personnel in the implementation of their duties to ensure compliance with institutional policies, regulations, rules and procedures.
10. All students accept the responsibility to abide by the University of Lethbridge Principles of Student Citizenship.

To view the entire version of the Principles of Student Citizenship, please visit [www.ulethbridge.ca/policy/principles-student-citizenship](http://www.ulethbridge.ca/policy/principles-student-citizenship).



## 9. NOTICES TO STUDENTS REGARDING THE COLLECTION OF PERSONAL DATA

### a. The Collection of Personal Information

The University collects personal information pursuant to Alberta's *Post-secondary Learning Act (PSLA)*, Alberta's *Freedom of Information and Protection of Privacy Act (FOIP)*, and other applicable federal and provincial law.

The subsections that follow outline personal information collected by the University. Where there is a specific legal authority to collect information, it is noted in the subsection. Your personal information will be used for admission, registration, scholarships and awards administration, academic progress monitoring, planning and research, alumni relations, contacting you about University courses and services, and operating other University-related programs. The University may share and disclose your personal information within the University to carry out its Mandate and operations. Specific non-identifying data will be disclosed to relevant student associations, and to the federal and provincial governments to meet reporting requirements. For questions on the collection, use and disclosure of this personal information, please contact the University's FOIP Coordinator.

Address: 4401 University Drive W  
Lethbridge, AB T1K 3M4  
Attn: Privacy Officer

Email: [foip@uleth.ca](mailto:foip@uleth.ca)

Phone: 403-332-4620

The University's practices for the collection, use and disclosure of personal information about students, and this Notice, comply with the provisions of Alberta's *Freedom of Information and Protection of Privacy Act (FOIP)*.

### b. The Official Student Record

The Registrar of the University maintains the Official Student Record. It includes: information provided when an *Application for Admission* is submitted or when registration for and change to programs and courses are submitted; the student identification number; academic record; graduation status; and immigration status (collection is specifically authorized by the *Immigration and Refugee Protection Act*) correspondence. It is used to determine a student's eligibility for admission and registration; to track progress at the University; to contact the student when necessary; to confirm a student's status and identity; and to develop statistical reports (although the information in statistical reports is grouped to protect individual privacy of individuals).

Some personal information in the Official Student Record is available to and used by other units of the University in order to meet the University's Mandate. However, access to the Official Student Record is limited in accordance with the University's *Confidentiality of Student Records Policy and the FOIP Act*.

When a student is eligible, certain elements from the Official Student Record are used in the Alumni and Development Record. These are name, address, Faculty and graduation status. They are used for ongoing contact with alumni and for the University's development activities.

For further information about the Official Student Record, please contact the Registrar:

Email: [regoffice@uleth.ca](mailto:regoffice@uleth.ca)

Phone: 403-320-5700

### c. Faculty/School Records

The University's Faculties and Schools collect personal information about students. This information may include School of Graduate Studies' Letter of Offer, program-specific class lists including pictures, records of a student's progress and standing in degree program attendance at class, composition of supervisory committee, program specific forms and assessments, completion of degree requirements, financial and employment contracts, completion of assignments, grades received for assignments and examinations, correspondence to and from the student, honours received by the student, contact addresses or telephone numbers, student advising information and graduation status.

The information is used to identify the student, track the student's progress, contact the student as necessary, operate the programs of the Faculty or School, provide advice to the student as requested and permit participation in the programs offered by the Faculty or School.

For further information about personal information collected by the Faculties and Schools, please contact the appropriate Office of the Dean:

<b>Arts and Science</b>	Phone: 403-317-5069 Email: <a href="mailto:artsci.deansoffice@uleth.ca">artsci.deansoffice@uleth.ca</a>
<b>Dhillon School of Business</b>	Phone: 403-329-2633 Email: <a href="mailto:dhillon.dean@uleth.ca">dhillon.dean@uleth.ca</a>
<b>Education</b>	Phone: 403-329-2254 Email: <a href="mailto:edu.sps@uleth.ca">edu.sps@uleth.ca</a>
<b>Fine Arts</b>	Phone: 403-329-2126 Email: <a href="mailto:finearts@uleth.ca">finearts@uleth.ca</a>
<b>Graduate Studies</b>	Phone: 403-329-2793 Email: <a href="mailto:sgs@uleth.ca">sgs@uleth.ca</a>
<b>Health Sciences</b>	Phone: 403-329-2676 Email: <a href="mailto:dean.hlsc@uleth.ca">dean.hlsc@uleth.ca</a>
<b>Liberal Education</b>	Phone: 403-380-1894 Email: <a href="mailto:liberal-ed@uleth.ca">liberal-ed@uleth.ca</a>

**d. Library**

The Library collects personal information about students that is necessary to operate the lending activities and reference services of the University Library.

For further information about personal information collected by the Library, please contact the University Librarian:

Email: libadmin@uleth.ca

Phone: 403-329-2261

**e. Scholarships and Student Finance**

Scholarships and Student Finance collects specific personal information from and about students who have applied for scholarships, bursaries, awards and other financial aid. The information collected is determined by the donors of the financial aid and relates to specific eligibility requirements set by the donors. The University also administers student loan programs under contracts with the financial assistance in the form of federal and provincial loans, grants, bursaries and awards. Personal information collected from and about students who apply for Alberta and Canada Student Loans is authorized by the *Alberta Students Finance Act* and related regulations, and by the *Canada Student Loans Act*, the *Canada Student Financial Assistance Act* and the *Income Tax Act*, and pursuant to the *FOIP Act*.

The information collected by Scholarships and Student Finance is used to administer the University Awards Program (see **Awards and Scholarships, p. 527**), the Alberta (Government) Scholarships Program and the loan programs of the provincial and federal governments.

For further information about personal information collected by Scholarships and Student Finance, please contact Scholarships and Student Finance:

Email: fin.aid@uleth.ca

Phone: 403-329-2585

**f. Housing Services**

The Housing Services and Catering and Food Services offices collect personal information necessary to operate student housing and food services programs, including the assignment to housing units, financial records related to payment for housing, and food services.

For further information about personal information collected by the Housing Services and Catering and Food Services offices, please contact the Executive Director, Ancillary Services:

Email: housing@uleth.ca

Phone: 403-329-2213

**g. Information Technology Services**

The University offers email services and computer access to students. The primary purposes of the service are to enable the students to contact one another and faculty members, participate in online research and discussions, and to allow assignments to be completed. Information Technology Services collects personal information about students in order to assign access to the University servers, monitor the use of University equipment in accordance with agreements signed by students to obtain access, and to obtain assistance with the use of University equipment.

For further information about personal information collected by Information Technology Services, please contact the Chief Information Officer:

Email: help@uleth.ca

Phone: 403-332-4664

**h. Financial Services**

University Financial Services collects personal information about students in order to ensure debts owed to the University are recorded and collected. Required information is collected to ensure Canada Revenue Agency rules are followed to issue tax slips to students.

The information is used to determine eligibility to participate in University programs and activities, including ongoing registration for academic programs, graduation, Students' Union programs, Recreation Services programs, and Health Centre programs.

For further information about personal information collected by Financial Services, please contact the Manager, Revenue Accounting, Financial Services:

Email: financial.services@uleth.ca

Phone: 403-329-2391

**i. Health Centre**

The Health Centre collects personal information that is necessary to operate clinical health services and to manage health care for students and University employees who visit the Health Centre. In addition to information collected under the general authority, the *Alberta Health Care Insurance Act* authorizes the collection of the individual's Alberta Health Care Insurance number or its equivalent for billing purposes. Collection of personal information by health practitioners and confidentiality of clinical records are also subject to the provisions of the *Alberta Health Disciplines Act*, *Health Facilities Review Act*, *Health Information Act* and *Medical Professions Act*.

For further information about personal information collected by Health Services, please contact the Manager, Health Centre:

Email: health.centre@uleth.ca

Phone: 403-329-2484

**j. Sport and Recreation Services**

Sport and Recreation Services collects personal information about students necessary to operate and promote intramural programs, offer recreational classes and offer drop-in programs. The information is used to determine eligibility to participate in the programs and assess and collect fees where applicable.

For further information about personal information collected by Sport and Recreation Services, please contact the Director, Horns Recreation:

Email: [halma@uleth.ca](mailto:halma@uleth.ca)

Phone: 403-329-5107

**k. Intercollegiate and Club Athletics**

The University intercollegiate athletic teams collect the personal information necessary for student athletes to participate in U SPORTS programs at both regional and national levels. University club teams collect personal information necessary for student athletes to participate in competitive sports outside U SPORTS programs at local, regional and national levels.

The information is used to determine eligibility and fitness for teams or competitions, and to operate and promote the teams.

For further information about personal information collected by athletic teams, please contact the Director, Pronghorn Athletics:

Email: [neil.langevin@uleth.ca](mailto:neil.langevin@uleth.ca)

Phone: 403-329-2380

**l. Faculty of Fine Arts**

The Faculty of Fine Arts collects personal information necessary for students to participate in Fine Arts programs and activities. The University considers that recordings of performances or photographs of students carrying out their work are necessary for the proper operation of the programs offered by the Faculty; and that the same may be used for the promotion of the Faculty and the programs it offers and may be retained in the archives of the University.

For further information about personal information collected by the Faculty of Fine Arts, please contact the Dean, Faculty of Fine Arts:

Email: [finearts@uleth.ca](mailto:finearts@uleth.ca)

Phone: 403-329-2126

**m. Campus Safety**

Emergency Preparedness, Insurance and Risk, Safety Services, and Security Services collect personal information about students in the reporting and investigation of risk, safety and security matters at the University.

For further information about personal information collected by Campus Safety departments, please contact the Chief Safety Office, Campus Safety:

Email: [security.inquiries@uleth.ca](mailto:security.inquiries@uleth.ca)

Phone: 403-329-2603

**n. University of Lethbridge Students and the Alberta Workers' Compensation Board**

In 1985, the Alberta Workers' Compensation Board issued an Order under Section 7 of the *Workers' Compensation Regulation* which provides that the *Workers' Compensation Act* applies to students registered in and attending the University of Lethbridge (and other post-secondary institutions in Alberta) while they are in attendance. The Workers' Compensation Board coverage does not extend to students who suffer accidents while engaging or participating in extracurricular sporting, recreational, social or personal fulfillment activities which are not a current academic requisite or which are not required as a part of the course of study in which the student is registered. Workers' Compensation Board coverage means students are treated as employees when injured in an incident related to the course of studies.

The University's Risk and Safety Services is available to assist the student if a Workers' Compensation claim is required.

Email: [security-i@uleth.ca](mailto:security-i@uleth.ca)

Phone: 403-329-2190, 403-329-2350

**10. UNIVERSITY ORGANIZATION****a. Leadership**

Website: [www.ulethbridge.ca/about/leadership](http://www.ulethbridge.ca/about/leadership)

The senior executive and governance leadership team consists of the President & Vice-Chancellor, President's Executive, Board Chair and Board of Governors, Chancellor and Senate, and General Faculties Council. The leadership emeriti listing, recognizing exceptional contributions, is available on the University Secretariat (Governance) website ([www.ulethbridge.ca/governance/leadership-emeriti](http://www.ulethbridge.ca/governance/leadership-emeriti)).

Many other groups contribute to the leadership of the University of Lethbridge:

- Students' Union ([ulsu.ca](http://ulsu.ca))
- Graduate Students' Association ([ulgsa.org](http://ulgsa.org))
- University of Lethbridge Faculty Association ([www.ulfa.ca](http://www.ulfa.ca))
- Alumni Association ([www.ulethbridge.ca/alumni/association](http://www.ulethbridge.ca/alumni/association))



**b. Academic Staff**

Website: [www.ulethbridge.ca/vp-academic/academic-staff-0](http://www.ulethbridge.ca/vp-academic/academic-staff-0)

A complete listing of all Academic Staff and Professors Emeritus (in accordance with the Professors Emeritus Policy) are available and updated annually (effective July 1).

**II. AWARDS OF EXCELLENCE****a. University of Lethbridge Awards**

There are numerous ways the University of Lethbridge recognizes the accomplishments of our internal and external Community.

- Honorary Degree Recipients ([www.ulethbridge.ca/governance/honorary-degrees](http://www.ulethbridge.ca/governance/honorary-degrees))
- Teaching Excellence Award (formerly Distinguished Teaching Award) ([www.ulethbridge.ca/president/awards/distinguished-teaching](http://www.ulethbridge.ca/president/awards/distinguished-teaching))
- Speaker Medal for Distinguished, Research, Scholarship or Performance ([www.ulethbridge.ca/research/speaker-research-award](http://www.ulethbridge.ca/research/speaker-research-award))
- Board of Governors Research Chairs ([www.ulethbridge.ca/research/research-chairs](http://www.ulethbridge.ca/research/research-chairs))
- Board of Governors Teaching Chairs ([www.ulethbridge.ca/vp-academic/awards-and-honours/board-of-governors-chair-in-teaching](http://www.ulethbridge.ca/vp-academic/awards-and-honours/board-of-governors-chair-in-teaching))
- Board of Governors University Scholars (historical) ([www.ulethbridge.ca/research/research-chairs](http://www.ulethbridge.ca/research/research-chairs))
- President's Award for Service Excellence ([www.ulethbridge.ca/president/awards/service-excellence](http://www.ulethbridge.ca/president/awards/service-excellence))
- Key to the University of Lethbridge ([www.ulethbridge.ca/president/key-university](http://www.ulethbridge.ca/president/key-university))
- University of Lethbridge Volunteer Award ([www.ulethbridge.ca/governance/university-lethbridge-volunteer-award](http://www.ulethbridge.ca/governance/university-lethbridge-volunteer-award))
- Alumni Achievement Awards (Alumnus/na of the Year, Young Alumnus/na of the Year and Alumni Honour Society Inductees) ([www.ulethbridge.ca/alumni/award](http://www.ulethbridge.ca/alumni/award))

**b. Achievements of Excellence**

1. Faculty Research Awards and Honours ([www.ulethbridge.ca/research/faculty-awards-honours](http://www.ulethbridge.ca/research/faculty-awards-honours))

Our researchers and scholars are leaders in their fields. For a list of the discipline-specific, multidisciplinary Canadian or international honours bestowed upon our researchers by their peers in recognition of their research excellence. We are pleased to have recipients of the Order of Canada, Royal Society of Canada, Fulbright Scholars, Alberta Innovates Awards, Alberta Heritage Foundation Awards, Canada's Top 40 under 40, and others.

2. Faculty Research Chairs ([www.ulethbridge.ca/research/research-chairs](http://www.ulethbridge.ca/research/research-chairs))

Research Chairs are prestigious academic distinctions bestowed upon faculty members recognized by their peers as having renowned records of research or other scholarly or creative activity. Along with an active Board of Governors Research program, Canada Research Chairs, Canada 150 Chairs, there are endowed, sponsored, honorific and provincially funded chairs.

3. Faculty Teaching Awards and Honours ([www.ulethbridge.ca/vp-academic/awards-and-honours](http://www.ulethbridge.ca/vp-academic/awards-and-honours))

Teaching is a core value of the University of Lethbridge and recognizing and enhancing teaching excellence among our faculty is encouraged and supported. Along with the Teaching Excellence Award and Board Teaching Chairs our faculty have been recognized with prestigious awards such as the 3M National Teaching Fellowship.

4. Student Awards and Honours ([www.ulethbridge.ca/president/distinguished-achievements](http://www.ulethbridge.ca/president/distinguished-achievements))

There are numerous ways the University of Lethbridge recognizes the achievements of our students, and we are pleased that our students have received recognition within national and international platforms through Rhodes Scholars and Canadian Association for Cooperative Education (CAFCE) Co-op Students of the Year awards.

**12. ERRATA AND ADDENDA**

The University of Lethbridge Academic Calendar(s) are updated annually and is effective for the academic year that runs from May 1 to April 30.

From time to time, the Minister of Innovation and Advanced Education may provide the University with approval to offer new programs and majors. Such approval may be given after the Calendar has been published. In this event, the University will list newly approved programs and majors along with complete descriptions and requirements on the University website.

In addition, a list of corrections and post-publication updates to the print edition of the 2022/2023 Calendar will be posted at [www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar). The online edition of the Calendar may be changed to reflect these changes. Please check this web page regularly for information about changes.



# ACADEMIC SCHEDULE

<b>1. INTRODUCTION .....</b>	<b>16</b>
<b>2. SUMMER TERM .....</b>	<b>17</b>
May 2022 .....	17
June 2022 .....	17
July 2022 .....	17
August 2022 .....	18
<b>3. FALL TERM .....</b>	<b>19</b>
September 2022 .....	19
October 2022 .....	19
November 2022 .....	19
December 2022 .....	19
<b>4. SPRING TERM .....</b>	<b>20</b>
January 2023 .....	20
February 2023 .....	20
March 2023 .....	20
April 2023 .....	20

## I. INTRODUCTION

The University's Academic Schedule defines the academic year terms and sessions, as well as other important dates and deadlines for the institution. This includes holiday dates, deadlines for fees payments, adding and dropping courses, application for graduation, and other important related information.

Undergraduate students in internship/practicum/practice courses in the Faculty of Education or Faculty of Health Sciences may be required to complete hours outside of the regularly scheduled term. Term breaks, if scheduled, may be scheduled differently than what is presented in the Academic Schedule. Orientation meetings/sessions may be offered before the first day of classes for a term.

A Faculty/School may deliver a special course offering outside the term or session dates of the academic schedule. Any uniquely scheduled courses that fall outside the normal delivery dates are subject to course-specific deadlines, such as Add/Drop, Withdrawal, etc., as communicated by the Faculty/School offering the course.

The Academic Schedule is also available online and contains a tentative schedule (subject to change) for Summer 2023 to Spring 2025. Updated information will be available from the Student Enrolment and Registrar Services website at [www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar).

Admission application and document deadlines – see **Admission, Application Deadlines (p. 23)**.

### The University of Lethbridge operates three terms during the academic year:

#### Summer Term

Summer Term – full term      May - August

Summer Session I              May - June

Summer Session II             July

Summer Session II/III        July - August

Summer Session III            August

Fall Term                         September - December

Spring Term                    January - April

### Start and End Dates for Summer 2022 to Spring 2023

#### Summer Term 2022

Summer Term – full term      May 2 - Aug 15

Summer Session I              May 2 - Jun 17

Summer Session II             Jul 4 - Jul 25

Summer Session II/III        Jul 4 - Aug 17

Summer Session III            Aug 3 - Aug 24

Fall Term 2022                 Sep 7 - Dec 20

Spring Term 2023             Jan 4 - Apr 21

**2. SUMMER TERM****Grade Submission Deadlines** – Deadline for submission of final grades – 12:00 p.m. (noon)

Session I	Jun 20, 2022
Session II	Jul 28, 2022
Session II/III	Aug 29, 2022
Session III	Aug 29, 2022
Summer – full term	Aug 29, 2022

**May 2022**

May 1	First day of the academic year.
May 2	Deadline for receipt of outstanding documents in support of an Application for Graduation for Spring Convocation.
May 2	First day of Summer Term – full term (classes begin).
May 2	First day of Summer Session I (classes begin).
May 2	Orientation meeting for students registered in Education 2500.
May 5	Last day for course add/drop and registration for Summer Session I, for all students.
May 6	Registration for Audit Students for Summer Session I.
May 6 - 10	Submission of Credit/Non-Credit course designations for Summer Session I.
May 9	Last day for cancellation of course registration (extended drop) for Summer Session I. After this date, students are assessed full fees. <sup>2</sup>
May 9	Last day for course add/drop and registration for Summer Term – full term, including Independent Study and Undergraduate Thesis courses.
May 9	First day for submission of Credit/Non-Credit course designations for Summer Term - full term.
May 9, 10	Registration for Audit Students for Summer Term – full term.
May 23	Victoria Day (University offices closed)
May 25	Last day for cancellation of course registration (extended drop) for the Summer Term – full term. After this date, students are assessed full fees. <sup>2</sup>

**June 2022**

Jun 1	Last day for submission of Credit/Non-Credit course designations for Summer Term – full term.
Jun 1	Summer Term – full term, and all Summer Session fees due. <sup>2</sup>
Jun 2, 3	Spring Convocation.
Jun 7	Deadline for submission of Grade Appeal forms for courses completed in the Spring term.
Jun 13	Last day of classes for Summer Session I.
Jun 13	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session I.
Jun 13	Last day for application for Withdrawal with Cause for Summer Session I.
Jun 14	Summer Session I final examinations for Tuesday-Thursday classes. <sup>1</sup>
Jun 15	Summer Session I final examinations for Monday-Wednesday classes. <sup>1</sup>
Jun 17	Summer Session I final examinations for Friday-Saturday classes. <sup>1</sup>
Jun 17	Last day of Summer Session I.
Jun 27 - Jul 2	Summer Term Break (Summer Term – full term classes only) (No classes)

**July 2022**

Jul 1	Canada Day Observance (University offices closed)
Jul 4	First day of Summer Session II and II/III (classes begin).
Jul 7	Last day for course add/drop and registration for Summer Session II and II/III, for all students.
Jul 8	Registration for Audit Students for Summer Session II and II/III.
Jul 8 - 12	Submission of Credit/Non-Credit course designations for Summer Session II and II/III.
Jul 11	Last day for cancellation of course registration (extended drop) for Summer Session II and II/III. After this date, students are assessed full fees. <sup>2</sup>
Jul 22	Last day of classes for Summer Session II.
Jul 22	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session II.
Jul 22	Last day for application for Withdrawal with Cause for Summer Session II.
Jul 25	Summer Session II final examinations.
Jul 25	Last day of Summer Session II.
Jul 26	Last Tuesday class meeting for Summer Term – full term courses scheduled Tuesday only.
Jul 27	Last Wednesday class meeting for Summer Term – full term courses scheduled Wednesday only.

**August 2022**

Aug 1	Registration begins for Open Studies and Visiting Students for the Fall term.
Aug 1	Civic Holiday (University offices closed)
Aug 2	Deadline for Application for Graduation for Fall Convocation.
Aug 2	Deadline for Application for Visiting Student Authorization for Visiting Studies in the Fall term.
Aug 3	Additional and last class meeting for Summer Term – full term courses scheduled on Monday only.
Aug 3	Last day of classes for Summer Term – full term.
Aug 3	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Term – full term courses (May - August).
Aug 3	Last day for application for Withdrawal with Cause for the Summer Term – full term.
Aug 3	First day of Summer Session III (classes begin).
Aug 6	Summer Term – full term final examination period begins.
Aug 8	Last day for course add/drop and registration for Summer Session III, for all students.
Aug 8	Last day for cancellation of course registration (extended drop) for Summer Session III. After this date, students are assessed full fees. <sup>2</sup>
Aug 9	Registration for Audit Students for Summer Session III.
Aug 9 - 11	Submission of Credit/Non-Credit course designations for Summer Session III.
Aug 15	Summer Term – full term final examination period ends.
Aug 15	Last day of Summer Term – full term.
Aug 15	Last day of classes for Summer Session II/III.
Aug 15	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session II/III.
Aug 15	Last day for application for Withdrawal with Cause for Summer Session II/III.
Aug 16	Summer Session II/III final examinations for Tuesday-Thursday classes. <sup>1</sup>
Aug 17	Summer Session II/III final examinations for Monday-Wednesday classes. <sup>1</sup>
Aug 17	Last day of Summer Session II/III.
Aug 23	Last day of classes for Summer Session III.
Aug 23	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session III.
Aug 23	Last day for application for Withdrawal with Cause for Summer Session III.
Aug 24	Summer Session III final examinations.
Aug 24	Last day of Summer Session III.
Aug 29	Deadline for receipt of outstanding documents in support of an Application for Graduation for students completing program requirements in Summer Session.

<sup>1</sup> Calgary campus final examination schedule may vary slightly from the Lethbridge campus schedule.

<sup>2</sup> See **Fees (p. 43)**.



**3. FALL TERM****Grade Submission Deadlines** – Deadline for submission of final grades – 12:00 p.m. (noon)

Fall Term                      Dec 23, 2022

**September 2022**

Sep 2	Deadline for Withdrawal of Application for Graduation for Fall Convocation.
Sep 5	Labour Day (University offices closed)
Sep 5, 6	New Student Orientation (Open to all students).
Sep 6	Orientation meeting and classes for Professional Semester I students in the Faculty of Education.
Sep 7	First day of Fall term (classes begin).
Sep 7	Orientation meeting for students registered in Education 2500.
Sep 13	Last day for course add/drop and registration for the Fall term, including Independent Study and Undergraduate Thesis courses.
Sep 14	First day for submission of Credit/Non-Credit course designations.
Sep 14, 15	Registration for Audit Students.
Sep 26	Last day for cancellation of course registration (extended drop) for the Fall term. After this date, students are assessed full fees. <sup>2</sup>
Sep 30	National Day for Truth and Reconciliation Observance (University offices closed)

**October 2022**

Oct 3	Last day for submission of Credit/Non-Credit course designations.
Oct 3	Fees due. <sup>2</sup>
Oct 7	Deadline for submission of Grade Appeal forms for courses completed in Summer Session.
Oct 10	Thanksgiving (University offices closed)
Oct 15	Fall Convocation.
Oct 18	Registration dates available on the Bridge.

**November 2022**

Nov 1	Deadline for Application for Graduation for students completing program requirements in the Fall term.
Nov 7 - 12	Fall Term Break (No classes)
Nov 11	Remembrance Day Observance (University offices closed)
Nov 30	Last Wednesday class meeting for courses scheduled Wednesday only.

**December 2022**

Dec 1	Deadline for Application for Visiting Student Authorization for Visiting Studies in the Spring term.
Dec 1	Last Thursday class meeting for courses scheduled Thursday only.
Dec 7	Additional and last class meeting for courses scheduled on Monday only.
Dec 9	Last day of classes for Fall term.
Dec 9	Last day for withdrawal from individual courses, or complete withdrawal, for the Fall term.
Dec 9	Last day for application for Withdrawal with Cause for the Fall term.
Dec 12	Fall term final examination period begins. <sup>1</sup>
Dec 16	Registration begins for Open Studies and Visiting Students for the Spring term.
Dec 20	Fall term final examination period ends. (Professional Semester students must be available until the last day of the Fall term final examination period to ensure required hours and related activities are completed.)
Dec 20	Last day of Fall term.
Dec 23	Deadline for receipt of outstanding documents in support of an Application for Graduation for students completing program requirements in the Fall term.
Dec 25 - 31	Holiday Observance (University offices closed)

<sup>1</sup> Calgary campus final examination schedule may vary slightly from the Lethbridge campus schedule.<sup>2</sup> See **Fees (p. 43)**.

**4. SPRING TERM****Grade Submission Deadlines** – Deadline for submission of final grades – 12:00 p.m. (noon)

Spring Term      Apr 24, 2023

**January 2023**

Jan 2	New Year's Observance (University offices closed)
Jan 3	University open.
Jan 3	New Student Orientation (Open to all students).
Jan 4	First day of Spring term (classes begin).
Jan 4	Orientation meeting for Professional Semester II students in the Faculty of Education.
Jan 4	Orientation meeting for students registered in Education 2500.
Jan 6	Deadline for Withdrawal of Application for Graduation for February conferral.
Jan 10	Last day for course add/drop and registration for the Spring term, including Independent Study and Undergraduate Thesis courses.
Jan 11	First day for submission of Credit/Non-Credit course designations.
Jan 11, 12	Registration for Audit Students.
Jan 25	Last day for cancellation of course registration (extended drop) for the Spring term. After this date, students are assessed full fees. <sup>2</sup>

**February 2023**

Feb 1	Conferral in Absentia for students completing program requirements in the Fall term.
Feb 1	Last day for submission of Credit/Non-Credit course designations.
Feb 1	Fees due. <sup>2</sup>
Feb 7	Deadline for submission of Grade Appeal forms for courses completed in the Fall term.
Feb 18 - 24	Spring Term Break (No classes)
Feb 20	Family Day (University offices closed)

**March 2023**

Mar 1	Registration dates available on the Bridge.
Mar 1	Deadline for Application for Graduation for Spring Convocation.
Mar 29	Last Wednesday class meeting for courses scheduled Wednesday only.
Mar 30	Last Thursday class meeting for courses scheduled Thursday only.

**April 2023**

Apr 3	Deadline for Application for Visiting Student Authorization for Visiting Studies in Summer Session.
Apr 6	Last day of classes for Spring term.
Apr 6	Last day for withdrawal from individual courses, or complete withdrawal, for the Spring term.
Apr 6	Last day for application for Withdrawal with Cause for the Spring term.
Apr 6	Last day for submission of Application for Placement form for Professional Semester III students intending to complete requirements in the Fall term.
Apr 7	Good Friday (University offices closed)
Apr 10	Easter Monday (University offices closed)
Apr 13	Spring term final examination period begins. <sup>1</sup>
Apr 16	Registration begins for Open Studies and Visiting Students for Summer Session.
Apr 21	Spring term final examination period ends. (Professional Semester students must be available until the last day of the Spring term final examination period to ensure required hours and related activities are completed.)
Apr 21	Last day of Spring term.
Apr 28	Deadline for Withdrawal of Application for Graduation for Spring Convocation.
Apr 30	Last day of the academic year.

<sup>1</sup> Calgary campus final examination schedule may vary slightly from the Lethbridge campus schedule.<sup>2</sup> See **Fees (p. 43)**.

# ADMISSION

<b>1. INTRODUCTION</b>	<b>22</b>	<b>9. ADMISSION DOCUMENTS</b>	<b>31</b>
<b>2. ADMISSION PROCEDURES</b>	<b>22</b>	a. Documents not Issued in English or French	31
a. Application for Admission	22	b. Confidentiality of Application Documents	31
b. Submission of Transcripts and Documents	22	c. Misrepresentation/Falsified Documents	31
c. Confirmation of Admission	22	<b>10. CONDITIONAL ADMISSION</b>	<b>32</b>
d. Admission Appeals	22	a. Applicants Currently Attending High School	32
<b>3. GENERAL ADMISSION</b>	<b>22</b>	b. Applicants Currently Attending Post-Secondary	32
<b>4. ADDITIONAL ADMISSION REQUIREMENTS BY PROGRAM</b>	<b>23</b>	<b>11. TRANSFER CREDIT</b>	<b>32</b>
<b>5. APPLICATION DEADLINES</b>	<b>23</b>	a. Transfer Policies	32
<b>6. GENERAL ADMISSION ROUTES AND ACADEMIC QUALIFICATIONS</b>	<b>23</b>	b. Re-evaluation of Transfer Credit Decisions	34
a. High School Admission Route	23	<b>12. INFORMATION FOR INCOMING VISITING STUDENTS</b>	<b>34</b>
b. Post-Secondary Admission Route	25	<b>13. INFORMATION FOR INCOMING EXCHANGE STUDENTS</b>	<b>34</b>
c. Adult Student (Mature) Admission Route	26	<b>14. GENERAL POLICIES FOR ALL APPLICANTS</b>	<b>34</b>
d. Indigenous Student Success Cohort	27	a. Transfer Policies	32
e. Certificate in Arts and Science	27	b. Access to Courses	34
f. English for Academic Purposes Admission Route	28	c. Enrolment Limits	34
g. Standardized Test Admission Route	28	d. Year of the Calendar	34
h. Dual Admission	28	e. Simultaneous Enrolment	34
i. Returning After an Absence	28	<b>15. CAVEAT - AUTHORITY TO RESCIND ADMISSION/REGISTRATION PRIVILEGES</b>	<b>35</b>
j. Continuing Students Changing Programs	29		
<b>7. INTERNATIONAL STUDENTS</b>	<b>29</b>		
a. Academic Qualifications	29		
b. Deferral of Admission	30		
<b>8. ENGLISH LANGUAGE REQUIREMENTS</b>	<b>30</b>		
a. Spoken English Language Proficiency (SELP)	30		
b. English Language Proficiency (ELP)	30		

## I. INTRODUCTION

The University of Lethbridge is Canada's destination for all who seek a comprehensive, liberal education-based university that promotes a diverse and inclusive environment and inspires research-informed teaching and learning, creative discovery, scholarship, professional endeavour, experiential opportunities and community engagement.

Applications for admission to undergraduate programs are welcomed from Canadian and international applicants for fall term (commencing September) and spring term (commencing January). The University of Lethbridge imposes no admission limitations on the basis of provincial residence or citizenship.

Individuals who wish to study at the University, but who do not wish to be or who are not qualified to be admitted to a program of study, may register in credit courses through Open Studies (see **Registration, Open Studies Student, p. 39**).

### Student Enrolment and Registrar Services

Office: SU140 (Students' Union Building)  
 Email: [inquiries@uleth.ca](mailto:inquiries@uleth.ca)  
 Phone: 403-320-5700  
 Fax: 403-329-5159  
 Web: [www.ulethbridge.ca/future-student](http://www.ulethbridge.ca/future-student)

Admission information in this Calendar pertains to applicants beginning studies in the 2022/2023 academic year. Admission requirements for future years will be available upon approval at [www.ulethbridge.ca/ross/admissions](http://www.ulethbridge.ca/ross/admissions).

## 2. ADMISSION PROCEDURES

### a. Application for Admission

To apply for admission or readmission, applicants submit an *Application for Admission* accompanied by a non-refundable application fee (see **Fees, p. 43**). Applicants must apply using their full legal name and list any previous legal names on the application. By completing the application, applicants attest that the information they are supplying is complete and correct.

The application for admission to undergraduate programs may be submitted online at [www.applyalberta.ca](http://www.applyalberta.ca). Applicants may also download the application in PDF format from [www.ulethbridge.ca/ross/admissions](http://www.ulethbridge.ca/ross/admissions).

Continuing students submit a *Request to Change a Program or Major form* on the Bridge (see **Continuing Students Changing Programs, p. 29**).

Only one application to the University of Lethbridge may be completed each term (excluding applications for English for Academic Purposes).

### b. Submission of Transcripts and Documents

By submitting an *Application for Admission* or readmission, applicants authorize the University of Lethbridge to request transcripts on their behalf through ApplyAlberta from Alberta Education and/or participating post-secondary institutions in Alberta.

Applicants who have previously studied or are currently studying at institutions not participating in ApplyAlberta are strongly advised to arrange at the time of application for the submission of final, official transcripts (or interim transcripts if necessary final transcripts are not yet available) and any other required documentation. Final, official academic transcripts and any other documentation requested by the University must be received on or before the document deadline (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines) and **Admission Documents, p. 31**).

### c. Confirmation of Admission

All newly admitted and readmitted students are required to submit a *Confirmation of Admission* form and pay a non-refundable tuition deposit to confirm their acceptance of admission on or before the expiry date of the *Offer of Admission* (see **Fees, p. 43**).

### d. Admission Appeals

Admission and readmission decisions are final. Admission decisions may not be appealed to any Faculty, School, or department of the University of Lethbridge.

## 3. GENERAL ADMISSION

The University of Lethbridge offers over 150 different programs. Many of these programs are available directly to high school graduates or mature applicants. Others require a year or more of university-level studies as preparation for admission.

This part of the Calendar outlines the minimum requirements for undergraduate admission at the University of Lethbridge. Individual programs may have additional requirements or higher standards for entry that must be met before admission to a specific program will be considered. Such requirements are detailed in the appropriate part of this Calendar:

<b>Faculty of Arts and Science</b>	<b>p. 87</b>
<b>Faculty of Education</b>	<b>p. 149</b>
<b>Faculty of Fine Arts</b>	<b>p. 167</b>
<b>Faculty of Health Sciences</b>	<b>p. 193</b>
<b>Dhillon School of Business</b>	<b>p. 207</b>
<b>Combined Degrees</b>	<b>p. 243</b>

Additional information for programs offered by the **School of Graduate Studies** is available in the University of Lethbridge Graduate Studies Calendar and Course Catalogue ([www.ulethbridge.ca/ross/academic-calendar](http://www.ulethbridge.ca/ross/academic-calendar)).

#### 4. ADDITIONAL ADMISSION REQUIREMENTS BY PROGRAM

Some programs have additional admission requirements that must be met by all applicants by the appropriate deadline. Please visit [www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements](http://www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements).

#### 5. APPLICATION DEADLINES

Applications and document deadlines vary by campus, program and term, as well as your academic background and Canadian residency status. Please visit [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines).

#### 6. GENERAL ADMISSION ROUTES AND ACADEMIC QUALIFICATIONS

Applicants are considered for general admission under the admission route most appropriate to their academic qualifications. All applicants are required to meet the English Language Proficiency (ELP) requirement (see **English Language Proficiency (ELP)**, p. 30). Some programs may have additional admission requirements. For a complete list, see **Additional Admission Requirements by Program**, p. 23.

##### a. High School Admission Route

Applicants presenting high school (often referred to as secondary) credentials, will be considered for admission under the **High School Admission Route**. In order to maximize program and course choices, all applicants are encouraged to present a broad range of subjects for admission.

To qualify for general admission, applicants must have a final admission average of at least 65 percent.

When necessary for the purposes of calculating the admission average, Student Enrolment and Registrar Services will convert grades to the Alberta high school percentage scale. Grades and courses from outside Alberta that have been evaluated by agencies other than the original educational institution are subject to review and adjustment by the University of Lethbridge.

Only passing grades will be used in the average calculation. In cases where the applicant has repeated a secondary course, the highest grade will be used.

##### I. High School Requirements

##### a. Course Requirements

All Canadian high school applicants must present credit in five senior secondary courses, or equivalents, including one language arts course and at least four other courses.

**For Canadian equivalent high school courses by province, please see [www.ulethbridge.ca/ross/admissions/undergrad/high-school](http://www.ulethbridge.ca/ross/admissions/undergrad/high-school).**

**Alberta, N.W.T., and Nunavut**

**One academic English Language Arts course:**

- English Language Arts 30-I

**Three approved courses chosen from:**

- Aboriginal Studies 30
- Art 30 or Art 3I
- Biology 30
- Chemistry 30
- Choral Music 30, General Music 30, or Instrumental Music 30
- Dance 35
- Drama 30
- Mathematics 30-I or Mathematics 30-2
- Mathematics 3I
- Physics 30
- Science 30
- Social Studies 30-I
- Five credits in Advanced-level CTS Computer Science (CSE)
- One or more distinct languages at the 30 level

**One additional course that has not already been used:**

- May be from the list above
- Must be at the 30 level
- Must be worth at least five credits (multiple courses worth a total of five or more credits can be used)
- Cannot be a Special Project

**Note:** Instead of Mathematics 30-I students may use University of Lethbridge's Mathematics 0500.

## b. Admission Average

The admission average for all Canadian high school applicants is calculated using the most advantageous combination of course requirements.

For applicants presenting both school and exam grades on Canadian high school courses, the final (blended) grade will be used to calculate the admission average.

Applicants currently completing courses at Canadian high school may be considered for conditional admission on the basis of final Grade 11 grades. For this purpose, the applicant will provide final grades for Grade 11 and Grade 12 courses already completed.

The University reserves the right to rescind admission at any time should the student's admission qualifications fall below the minimum standard required for admission (see **Conditional Admission, p. 32**). When possible, the applicant will be offered admission to an alternate program for which they are eligible and will not be charged an additional application processing fee.

Applicants that apply by December 15 automatically qualify for the Board of Governors award.

## 2. International High School

Academic high school (secondary) qualifications from other countries are considered for admission (see [www.ulethbridge.ca/ross/admissions/undergrad/international/intreq\\_table](http://www.ulethbridge.ca/ross/admissions/undergrad/international/intreq_table)).

Conditional admission is available to applicants currently completing high school courses outside of Canada. The University must receive an interim academic transcript or current report card in order to determine an admission average for general admission.

## 3. Advanced Placement Program

Advanced Placement (AP) credentials are recognized as a means of satisfying general admission requirements.

AP scores are converted as follows:

AP Score	Grade 12 Percentage
5	96%
4	86%
3	76%
2	65%
1	not acceptable for admission

**AP Transfer Credit Policy**

Students presenting AP credentials have the option at the point of admission of receiving transfer credit for approved courses where they have achieved a grade of '4' or higher. For course equivalents, refer to the University of Lethbridge Transfer Equivalency Database (TED) ([www.ulethbridge.ca/ross/ted](http://www.ulethbridge.ca/ross/ted)). To be eligible for transfer credit, an official AP transcript must be received by the final official document deadline (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)).

**To obtain AP transcripts:**

AP College Board ATP (Transcript Department)

P.O. Box 6671,

Princeton, NJ 08451-6671

[apstudents.collegeboard.org/sending-scores](http://apstudents.collegeboard.org/sending-scores) (University of Lethbridge College Code: 0855)

## 4. International Baccalaureate Program

International Baccalaureate (IB) credentials are recognized both as an admission route and as a means of satisfying general admission requirements.

Applicants presenting complete IB diplomas are guaranteed general admission to the University, subject to English Language Proficiency requirements and deadlines. Admission to specific programs is not guaranteed.

IB course grades are converted as follows:

IB Grade	Grade 12 Percentage
7	97%
6	84%
5	77%
4	65%
3	55%
2	not acceptable for admission
1	not acceptable for admission

### IB Transfer Credit Policy

Students presenting IB credentials have the option at the point of admission of receiving transfer credit for approved courses in which they have achieved a grade of '5' or higher. For course equivalents, refer to the University of Lethbridge Transfer Equivalency Database (TED) ([www.ulethbridge.ca/ross/ted](http://www.ulethbridge.ca/ross/ted)). To be eligible for transfer credit, an official IB transcript must be received by the final official document deadline (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)).

#### To obtain IB transcripts:

To request that an IB transcript be sent directly to the University of Lethbridge please visit [www.ibo.org/programmes/diploma-programme/assessment-and-exams/requesting-transcripts](http://www.ibo.org/programmes/diploma-programme/assessment-and-exams/requesting-transcripts).

#### 5. General Certificate of Education (GCE)

Advanced Level (A-level) courses in appropriate subjects are recognized for admission. Courses completed with a grade of 'C' or higher will be considered for transfer credit. Credit for a maximum of ten University of Lethbridge 3.0 credit courses may be obtained in this manner.

#### 6. High School Upgrading

The University of Lethbridge recognizes academic upgrading courses completed at post-secondary institutions in lieu of high school courses for admission and prerequisite purposes, including University of Lethbridge courses at the 0500 level. A list of recognized courses available at other Alberta post-secondary institutions may be obtained from [transferalberta.alberta.ca/](http://transferalberta.alberta.ca/) transfer-alberta-search. Other courses will be considered on a case-by-case basis.

#### 7. Home School

Home school applicants who present recognized secondary credentials will be considered for admission under the appropriate admission route.

### b. Post-Secondary Admission Route

Applicants who have completed six or more transferable courses at one or more post-secondary institutions will be considered under the **Post-Secondary Admission Route**, as follows. Some programs may have additional admission requirements. For a complete list, see **Additional Admission Requirements by Program, p. 23**.

#### 1. Transferable Courses

To qualify for general admission, post-secondary applicants must present six or more completed transferable credit courses with an admission grade point average (GPA) of at least 2.00 (on the University of Lethbridge 4.00 GPA scale). Applicants presenting fewer than six transferable credit courses must also meet the **High School Admission Route (p. 23)** requirements.

All transferable post-secondary work completed by an applicant, as indicated on the transcript(s), will be used in determining admission eligibility.

Upon admission, completed post-secondary credit courses will be considered for transfer credit on a course-by-course basis for eligible post-secondary work. The number of courses considered to be transferable in the context of the admission decision may or may not coincide with the number of courses ultimately awarded transfer credit. For additional information, see **Transfer Credit (p. 32)**.

When necessary for the purposes of calculating the admission GPA and awarding transfer credit, Student Enrolment and Registrar Services will convert grades to the University of Lethbridge 4.00 GPA scale.

Applicants who hold certificate credentials from credit programs at recognized post-secondary institutions may be eligible to receive transfer credit upon admission, see **Transfer Credit (p. 32)**.

#### 2. College Diploma

An applicant who has been awarded a diploma credential from a recognized institution will be considered for admission. In all cases, University of Lethbridge program residence and time limit policies shall apply.

##### a. General Admission

Holders of two- or three-year college diploma credentials from approved post-secondary institutions, completed with a program GPA of 2.00 or higher (on the University of Lethbridge 4.00 scale), shall be eligible for general admission. Student Enrolment and Registrar Services will consult with the Faculty or School offering programs most closely related to the diploma credential program in regard to determination of sufficient academic merit. The higher of the diploma program GPA or GPA based on transferable courses (see **Transferable Courses, p. 25**) will be used for admission purposes.

Transfer credit will be awarded on a course-by-course basis, in accordance with approved transfer credit policies, see **Transfer Credit (p. 32)**.

##### b. Post-Diploma Agreements

Where the University of Lethbridge has an agreement with a partner institution, an applicant who has been awarded a two- or three-year college diploma credential will be considered for admission to the appropriate post-diploma program. For more information on partner institutions, see [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma).

Some programs may have additional admission requirements. For a complete list, see **Additional Admission Requirements by Program, p. 23**.



### 3. Applied and Technology Degrees

Applicants presenting Applied or Technology degrees from recognized post-secondary institutions will be considered for admission under **College Diploma (p. 25)**.

Except when the Applied or Technology degree is the basis for admission to a post-diploma program, transfer credit will be awarded on a course-by-course basis, in accordance with approved transfer credit policies.

Applied and Technology degrees are not considered to be a basis of admission for second degree or graduate studies programs.

### 4. Previous Degree

Admission is based on highest level of education completed.

Students are not normally eligible to pursue another degree that is similar to one already completed at a recognized institution. Generally, degrees with identical or closely related majors are considered to be similar.

International applicants who possess a related degree will be considered for admission on a case-by-case basis. Student Enrolment and Registrar Services will consult with the intended Faculty or School with regard to this matter as appropriate.

#### a. Undergraduate

Applicants who have completed an approved undergraduate degree with a minimum GPA of 2.00 (on the University of Lethbridge 4.00 scale) will be eligible for general admission to pursue another undergraduate degree.

An approved degree is an academic baccalaureate degree requiring a minimum of 30 course equivalents (90.0 credit hours) or a graduate degree from a recognized degree-granting institution.

Previous courses completed as part of the credential are subject to the time limits of the appropriate Faculty or School. Please see the After an Approved Degree section for the appropriate Faculty or School and **Academic Regulations, Residence Requirements and Time Limits (p. 58)**.

Applicants are required to meet major specific admission requirements, as applicable. See [www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements](http://www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements).

In order to register in courses as an admitted student, a student who has graduated from a University of Lethbridge program must successfully apply for admission to another program using the Application for Admission. Otherwise, such students must register using the Open Studies student route (see **Registration, Open Studies Student, p. 39**).

#### b. Graduate (Master's and Ph.D.)

Applicants who have completed an approved Master's or Ph.D. degree from a recognized degree-granting institution will be eligible for general admission to pursue another undergraduate degree.

### 5. Applicants with Unsatisfactory Post-Secondary Records

Applicants who have been required to withdraw, suspended, or expelled (or its equivalent) from another post-secondary institution will be considered for admission one year after the date of the required withdrawal or once the suspension/expulsion is expired. The following policies apply to applicants who have unsatisfactory records at other post-secondary institutions:

#### a. Required to Withdraw

If such applicants are offered admission to the University, without satisfactory intervening studies, it will be on the condition of academic probation. See the corresponding section for the appropriate Faculty or School for more information. Where an applicant has been required to withdraw more than once from post-secondary institutions, Student Enrolment and Registrar Services may consult with the appropriate Faculty or School in consideration of admission.

#### b. Suspension

Applicants under an order of suspension from another post-secondary institution will be considered for admission only with the written recommendation by the Registrar and approval of the Provost and Vice-President (Academic).

#### c. Expulsion

Applicants who have been expelled from another post-secondary institution will be considered for admission only with the written recommendation by the Registrar and approval of the Provost and Vice-President (Academic).

See also **Returning After an Absence (p. 28)**.

### c. Adult Student (Mature) Admission Route

Applicants who are Canadian Citizens or Permanent Residents, at least 21 years of age by the first day of classes of the term of intended admission, and who do not fulfill requirements for any other admission route will be considered for general admission as outlined below. The number of seats available for Adult Student (Mature) Admission will be limited (as determined each term). Typically the number of seats will not be more than ten percent of the total admissions for high school applicants in a given fall or spring term.

All applicants are required to meet all program-specific requirements and one of the following:

1. **High School Admission Route (p. 23)** with an admission average of at least 60%
2. Minimum final grade of 65% in English 30-1 or 30-2, as well as passing grades in two other 30-level courses

3. Demonstrated potential for academic success and excellence in non-academic areas. Applicants are required to submit the following to Admissions:
  - a. Transcripts of all high school and post-secondary experience.
  - b. Standardized test scores, such as SAT or ACT, if available.
  - c. A *Letter of Intent* from the applicant including a statement on their potential for success in university studies, how their experiences since secondary school have contributed to this potential, their goals for the future, and why studies at the University will help them to realize these goals.
  - d. A résumé, providing a summary of all educational, employment and volunteer experience.

Applicants who have unsatisfactory post-secondary academic records (i.e. a GPA less than 2.00 on the University of Lethbridge 4.00 scale) will not be considered for Adult Student (Mature) Admission (see **Post-Secondary Admission Route, p. 25**).

**d. Indigenous Student Success Cohort**

The Indigenous Student Success Cohort (ISSC) is a first year credit program offered by the Faculty of Arts and Science that provides Indigenous students who are not fully admissible to the University of Lethbridge an opportunity to enter into the University. When space permits, those who qualify for general admission may also access the ISSC.

To be eligible for admission to the program, applicants must have been enrolled in high school until Grade 12 OR have been out of high school for at least one year and, at a minimum, hold credit for the following Alberta high school courses or their equivalents:

**One academic English Language Arts course chosen from:**

- English Language Arts 20-1
- English Language Arts 30-2

**Three approved courses chosen from:**

- Aboriginal Studies 20
- Biology 20
- Chemistry 20
- One Fine Arts course:
  - Art 30 or Art 31
  - Dance 35
  - Drama 30
  - Choral Music 30, General Music 30, or Instrumental Music 30
- Mathematics 20-1 or Mathematics 20-2
- Physics 20
- Science 20
- Social Studies 20-1 or Social Studies 30-2
- A 20-level language

Enrolment in the ISSC is limited. Students may be contacted by the Admissions Office or the Faculty of Arts and Science for further information.

Applicants to the ISSC who have been required to withdraw from the University of Lethbridge or another institution for academic reasons will be considered for admission without waiting for the lapse of one year and without completing additional university courses. Students admitted to the ISSC may be eligible for *Tabula Rasa* if their cumulative University of Lethbridge GPA is below 2.00 regardless of required withdrawal. For details regarding the granting of *Tabula Rasa*, see **Admission, Readmission after Required Withdrawal, p. 28**.

Students are encouraged to complete a range of 30-level high school courses, or equivalent, before application. Some option courses within the transition program have specific high school prerequisites (see **Course Catalogue (p. 343)** for details).

Students who complete the minimum course requirements of the ISSC and meet the Faculty of Arts and Science academic standards required for continuation (see **Arts and Science, Academic Standards, p. 90**), will be admitted to any Arts and Science undergraduate program for which they have the required prerequisite courses (see **Arts and Science, Admission, p. 89**). Those completing the ISSC with a GPA of at least 2.00 will be considered to have met general admission requirements for programs in the Faculty of Fine Arts, Faculty of Health Sciences, or Dhillon School of Business (see **Continuing Students Changing Programs, p. 29**). Some programs have additional admission requirements or higher standards for entry that must be met before admission will be considered.

**e. Certificate in Arts and Science**

The Certificate in Arts and Science is a university-level certificate program that may be completed in as little as one year of full-time study or may be completed on a part-time basis. Students who complete the certificate may qualify for a degree program, and use their certificate credits towards their degree, through the Post-Secondary Admission Route.

To be eligible for admission to the Certificate in Arts and Science, students must present a passing grade in English Language Arts 30-1, or an equivalent course.

Applicants who have completed post-secondary courses may also qualify for admission to the Certificate in Arts and Science through the Post-Secondary Admission Route, and are eligible for transfer credit.

#### f. **English for Academic Purposes Admission Route**

The English for Academic Purposes (EAP) program is a full-time, non-credit program offered by the English Language Institute (ELI) designed for students who are seeking admission into degree programs but have not met English Language Proficiency (ELP) requirements. Students who successfully complete the Advanced Level of EAP will satisfy the University's ELP requirement (for both undergraduate and graduate levels) and will not be required to submit a standardized English language test score (e.g., TOEFL, IELTS or CAEL) for University of Lethbridge admission.

Program entry is available in summer (May), fall (September), and spring (January) terms. Admission to the EAP program does not constitute admission to an undergraduate or graduate program at the University of Lethbridge. Applicants to an undergraduate or graduate program must meet all admission requirements specific to their program of study.

To be eligible for admission to the EAP program, applicants must have basic knowledge of the English language, equivalent to a score of 4.0 on the IELTS assessment (see **English Language Proficiency (ELP)**, p. 30 for further details regarding standardized English language tests). Applicants may submit standardized test scores to assist in determining their initial placement within the EAP program.

For application information, please see [www.ulethbridge.ca/international/eap](http://www.ulethbridge.ca/international/eap). Additional information regarding EAP program requirements can be found within **University of Lethbridge International**, p. 71.

#### g. **Standardized Test Admission Route**

Applicants who present acceptable ACT or SAT scores will be considered for general admission.

In the case of the SAT written prior to March 2016, the applicant must present complete SAT (Critical Reading, Mathematics and Writing) and three additional SAT Subject Test scores. In the case of the SAT written after March 2016, a minimum combined Evidence-Based Reading and Writing plus Math (ERW+M) score of 1040 is required.

In the case of the ACT, a composite score of 20 is required.

Applicants are also required to meet program-specific admission requirements and therefore will be required to submit their high school transcript for review.

#### h. **Dual Admission**

Dual Admission is a specific post-secondary admission route available for some degree programs open to students enrolled in a Dual Admission Partner Institution.

Students admitted and enrolled in a Partner Institution may be eligible to participate in dual admission. Students who meet Partner Institution and University of Lethbridge admission requirements and are enrolled in the Partner Institution may apply for general admission at the University of Lethbridge. Students who do not meet University of Lethbridge admission requirements may take courses at the Partner Institution to prepare for eligibility.

Students begin the application process at the Partner Institution. It is highly advised students seeking dual admission meet with an academic advisor from the Partner Institution.

Individuals enrolled in a Partner Institution who do not meet admission criteria or timelines are still invited to apply to the University of Lethbridge through the Post-Secondary admission route (see **Post-Secondary Admission Route**, p. 25).

To learn more about dual admission, please visit the website [www.ulethbridge.ca/ross/admissions/undergrad/dual-admission](http://www.ulethbridge.ca/ross/admissions/undergrad/dual-admission).

#### i. **Returning After an Absence**

All students returning to the University of Lethbridge after an absence of one or more fall or spring terms must apply for readmission according to current application procedures and deadlines.

1. Applicants who were previously admitted to the University, left after completing one or more terms, and have not completed any transferable courses at another institution during the absence will be considered for readmission to their previous program of study in accordance with the policies of the relevant Faculty or School (refer to the Admission information in the applicable Faculty or School part of the Calendar).
2. Applicants who are seeking readmission to a different program of studies or who have completed transferable courses at another post-secondary institution during the absence must meet current admission requirements for the program they are intending to pursue (see **Post-Secondary Admission Route**, p. 25).
3. If readmitted, applicants who were on academic probation upon leaving the University will be readmitted on condition of academic probation. See the corresponding section for the appropriate Faculty or School for more information.
4. Readmission after Required Withdrawal

Applicants seeking readmission after required withdrawal from the University of Lethbridge will be considered for admission after the lapse of one year from the date of required withdrawal, in accordance with the policies of the Faculty or School offering the program for which they are seeking admission. See **Faculty of Arts and Science** (p. 87), **Faculty of Education** (p. 149), **Faculty of Fine Arts** (p. 167), **Faculty of Health Sciences** (p. 193), and **Dhillon School of Business** (p. 207). See the corresponding Calendar section for the appropriate Faculty for more information.

*Tabula Rasa* will be granted to all first-degree University of Lethbridge students upon readmission to the University after required withdrawal for unsatisfactory academic performance. Applicants may choose to decline *Tabula Rasa* after consultation with an Academic Advisor. *Tabula Rasa*, or the opportunity to decline *Tabula Rasa*, will be granted only once, upon readmission after the first required withdrawal. Credit is retained for all previous courses completed with a grade of 'C-' or above, or 'P' or 'CR', up to the following limits (including transfer courses):

<b>Single Degree Programs</b>	
B.A., B.Sc., B.A.Sc., B.F.A. - Art, B.F.A. - Dramatic Arts, B.F.A. - Indigenous Art, B.F.A. - Multidisciplinary, B.F.A. - New Media, B.Mus., B.H.Sc., B.N., B.T.R., B.Mgt.	20 ungraded courses (60.0 credit hours)
<b>Combined Degree Programs</b>	
All with B.A., all with B.Sc., B.F.A. - Art/B.Ed., B.F.A. - Dramatic Arts/B.Ed., B.F.A. - New Media/B.Ed., B.Mus./B.Ed., B.H.Sc./B.Mgt., B.Mgt./B.Ed.	15 ungraded courses (45.0 credit hours)
<b>Post-Diploma Programs</b>	
B.A., B.Sc., B.A.Sc., B.F.A. - Art, B.F.A. - Dramatic Arts, B.F.A. - Multidisciplinary, B.F.A. - New Media, B.Mus., B.H.Sc., B.T.R., B.Mgt.	5 ungraded courses (15.0 credit hours)

Applicants readmitted to the University after being required to withdraw are readmitted on condition of academic probation. See the corresponding section for the appropriate Faculty or School for more information.

Where an applicant has been required to withdraw more than once, Student Enrolment and Registrar Services may consult with the appropriate Faculty or School in consideration of admission.

5. Readmission after Suspension

Applicants who left the University under an order of suspension will be considered for readmission to their previous program of study upon expiry of the period of suspension and fulfillment of any other requirements defined in the order of suspension, in accordance with 1. and 2. above.

6. Readmission after Expulsion

Applicants who left the University under an order of expulsion will be considered for admission only with the recommendation of Student Enrolment and Registrar Services in consultation with the Dean of the program from which the student was expelled, and the written approval of the Provost and Vice-President (Academic). Such approval shall not normally be given before the expiry of three years.

Such applicants will be considered for readmission to their previous program of study in accordance with 1., 2., and 3. above.

j. **Continuing Students Changing Programs**

A continuing student who wishes to change their academic program or major will apply by submitting a *Request to Change a Program or Major*.

All applicants must meet the additional admission requirements for the program to which they are applying. See **Additional Admission Requirements by Program, p. 23**.

1. Competitive Programs

Applicants seeking to change to competitive programs must meet the GPA requirements. See **Additional Admission Requirements by Program, p. 23**.

2. Non-Competitive Programs

Applicants must meet the minimum academic standing requirement of the Faculty or School to which they are applying (see **Academic Standards** within each Faculty or School section of this Calendar).

In the case where the program or major to which the student is applying has been introduced after the student's current Year of Calendar, the application will be considered for the calendar year for which they are applying.

Students who have graduated from a University of Lethbridge program must successfully apply for admission as a previous degree applicant (see **Previous Degree, p. 26**).

7. **INTERNATIONAL STUDENTS**

a. **Academic Qualifications**

All applicants must present qualifications comparable to those of Canadian applicants:

- Applicants who have completed appropriate secondary qualifications will be considered for admission under the **High School Admission Route (p. 23)**. See International Secondary/High School Admission Requirements ([www.ulethbridge.ca/ross/admissions/undergrad/international/intreq\\_table](http://www.ulethbridge.ca/ross/admissions/undergrad/international/intreq_table)) for requirements for specific countries.
- Applicants who have completed studies at recognized post-secondary institutions will be considered for admission under the **Post-Secondary Admission Route (p. 25)**.
- All applicants must meet additional admission requirements specific to their program (see **Additional Admission Requirements by Program, p. 23**).

## b. Deferral of Admission

International applicants who are eligible for admission will receive an *Offer of Admission* to both the initial term specified and the next term of admission to their program, provided it is within one calendar year of the term to which the applicant initially applied (i.e. an applicant may receive an *Offer of Admission* for fall or spring, but not for fall of one year and fall of the next). The applicant must then specify on their *Confirmation of Admission* form which term offer they are accepting.

International applicants who have accepted the first term specified on their *Confirmation of Admission* may be eligible to defer admission to the second term offered if they are unable to attend the University of Lethbridge as initially indicated. An applicant may only defer admission to the second term indicated on their *Confirmation of Admission*. Applicants who initially accepted for the second term listed on their *Confirmation of Admission* may not defer to a later term.

Only one deferral will be granted per application. The non-refundable tuition deposit (see **Fees, p. 43**) will be moved to the deferred admission term.

Applicants to programs that offer admission only once per calendar year, or those who would prefer an admission date later than the next available term, must re-apply to their desired program. If an applicant chooses to re-apply, the initial tuition deposit will not be transferred to a future term.

## 8. ENGLISH LANGUAGE REQUIREMENTS

English is the primary language of instruction and communication at the University of Lethbridge. Prior to registration, all undergraduate students must demonstrate English language proficiency sufficient to meet the demands of classroom instruction, written assignments and participation in tutorials and discussions, regardless of their citizenship status or country of origin.

There are two types of English requirements that apply to applicants to the University of Lethbridge:

### a. Spoken English Language Proficiency (SELP)

Admission requirement for applicants to programs offered by the Faculty of Health Sciences (see **Health Sciences, Spoken English Language Proficiency Requirement (SELP), p. 197**).

### b. English Language Proficiency (ELP)

Admission requirement for all applicants to undergraduate programs.

The English Language Proficiency (ELP) requirement applies to all applicants to undergraduate programs, regardless of citizenship or country of origin. The University of Lethbridge reserves the right to determine and publish adequate levels of language proficiency.

Applicants whose academic qualifications meet admission requirements must satisfy English language proficiency (ELP) by August 1 for fall (September) admission or November 15 for spring (January) admission (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)).

**Note:** The following policies do not apply to Exchange students.

Proficiency in English may be demonstrated through any of the following means:

1. High School
  - a. Alberta English Language Arts 30-1, or equivalent, with a minimum final (blended) grade of 75 percent.
  - b. A grade of 5 or higher IB Higher or Standard Level English.
  - c. A grade of 4 or higher AP English.
  - d. A grade of B or higher in GCE A/S-level or A-level English.
  - e. Successful completion of a minimum of three consecutive years of full-time academic study in English at a secondary school in Canada or another country where English is recognized as the primary language (see **Recognized Countries**, below). English as a Second Language of study is not considered academic.
2. Post-Secondary
  - a. Successful completion of a minimum two years of full-time academic study in English at a post-secondary institution in Canada or another country where English is recognized as the primary language (see **Recognized Countries**, below). English as a Second Language of study is not considered academic.
  - b. Successful completion of an academic diploma, applied degree, or baccalaureate degree, requiring at least two years of full-time study, at a recognized post-secondary institution in Canada where the language of instruction is English (see **College Diploma, p. 25**).
3. English for Academic Purposes (Must have been completed within two years prior to the date of application)
  - a. Successful completion of the Advanced Level of the University of Lethbridge English for Academic Purposes (EAP) program (see **English For Academic Purposes (EAP), p. 73**).
  - b. A passing grade in an EAP program accepted as a means of satisfying ELP by another recognized Canadian university, and whose ELP requirement is at least as demanding as that of the University of Lethbridge.
  - c. A passing grade in an EAP program approved by the Manager of Admissions.
4. ELP Assessments (Must have been completed within two years prior to the date of application)
  - a. Test of English as a Foreign Language (TOEFL iBT) with a minimum total score of 80, with minimum scores of 16 in each of Listening, Reading, and Speaking, and a minimum score of 18 in Writing.  
Website: [www.toefl.org](http://www.toefl.org) (University of Lethbridge Destination Institution (DI) code: 0855)

- b. Academic International English Languages Testing System (IELTS) test with a minimum overall score of 6.0, and a minimum 6.0 in each band.  
Website: [www.ielts.org](http://www.ielts.org)
  - c. Pearson Test of English (PTE) Academic score with a minimum overall score of 54.  
Website: [www.pearsonpte.com](http://www.pearsonpte.com)
  - d. Canadian Academic English Language (CAEL) Assessment with a minimum overall score of 60, a minimum of 50 in each of Listening, Reading, and Speaking, and a minimum of 60 in Writing.  
Website: [www.cael.ca](http://www.cael.ca)
  - e. Cambridge English Qualifications: C1 Advanced (C1 Advanced), with a minimum score of 'C'.  
Website: [www.cambridgeenglish.org/exams-and-tests/advanced](http://www.cambridgeenglish.org/exams-and-tests/advanced)
  - f. Cambridge English Qualifications: C2 Proficiency (C2 Proficiency), with a minimum score of 'C'.  
Website: [www.cambridgeenglish.org/exams-and-tests/proficiency](http://www.cambridgeenglish.org/exams-and-tests/proficiency)
5. Recognized Countries  
For the purposes of administering the ELP requirement, the University of Lethbridge recognizes designated countries where the primary language is English (see [www.ulethbridge.ca/ross/admissions/elp](http://www.ulethbridge.ca/ross/admissions/elp)).
6. Required Documentation  
All proof of English proficiency must be provided on official academic transcripts or standardized test score reports. Standardized test scores must be valid and verifiable.

## 9. ADMISSION DOCUMENTS

The University of Lethbridge requires official documents to support each application for admission and reserves the right to request any documentation that might reasonably be required to evaluate the applicant's eligibility for admission or transfer credit.

The University will consider unofficial documents to make an admission decision. Any *Offer of Admission* made on the basis of unofficial or interim documents will be conditional upon receipt of final official documents. Such documents must confirm the applicant's eligibility for admission, including current competitive admission standards. To be considered official, documents must be received by the University directly from the issuing institution.

By submitting an *Application for Admission*, applicants authorize the University of Lethbridge to request academic transcripts on their behalf from Alberta Education and/or post-secondary institutions participating in ApplyAlberta. Applicants who have attended institutions not participating in ApplyAlberta must arrange to have official academic transcripts sent directly to:

Student Enrolment and Registrar Services  
University of Lethbridge  
4401 University Drive West  
Lethbridge, Alberta, Canada  
T1K 3M4

It is the responsibility of the applicant to ensure that all required documents are received by the final official document deadline.

### a. Documents not Issued in English or French

Certified English translations are required for all admission documents that are not issued in either English or French. Certified English translations are required for all course materials submitted for transfer credit assessment that are not issued in English.

### b. Confidentiality of Application Documents

Applications for admission and all supporting documents are collected, managed and retained in accordance with the *Confidentiality of Student Records* policy (see [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy)).

### c. Misrepresentation/Falsified Documents

Admission and transfer credit decisions are made on the basis of complete and accurate information provided to the University by the applicant or by other institutions at the request of the applicant. The integrity of the admissions process is dependent on the honesty of the applicant.

Applicants are required to disclose all secondary and post-secondary institutions where any course registrations were made, and to arrange for all official transcripts to be sent directly to Admissions. Applicants who fail to meet these requirements may have their admission and registration cancelled and/or lose transfer credit.

For the purposes of this section, the term 'documents' refers to all transcripts, letters of reference, test results, portfolios, and other documents or statements submitted by an applicant or student, or on behalf of an applicant or student, supporting an *Application for Admission* or readmission to the University of Lethbridge or transfer credit assessment.

The submission of documents containing false identifying information, statements or intentional omissions of required information constitutes misrepresentation of a student's admission qualifications.

The submission of altered documents and/or the failure to provide all admissions documents constitutes the falsification of documents.

Where there is evidence that an applicant or student has 1) submitted, or arranged for the submission of, an application for admission purposes with false statements or intentional omissions; and/or 2) failed to provide any related document; and/or 3) submitted falsified documents, the University reserves the right to revoke admission and registration, according to the following procedures:

1. The Manager of Admissions will review the alleged offence(s) with the applicant or student and advise the student to refer to the Misrepresentation/Falsified Admission Documents policy in this section.  
Should the Manager of Admissions determine that the alleged offence(s) have occurred, they will provide the student with a letter of reprimand and place a copy in the student's official file, and may take any or all of the following additional actions:
  - a. Disqualify the applicant or student from future consideration for admission for a definite or indefinite period of time.
  - b. Notify other educational institutions regarding particulars of the incident.
  - c. Revoke the applicant's or student's admission status and/or registration privileges, up to and including immediate and permanent dismissal from the University.
  - d. Enter a notation on the applicant's or student's academic transcript as follows: "Suspended due to submission of false documents."
2. The applicant or student will have seven working days after the date of the letter in which to appeal in writing to the Registrar. In the absence of an appeal received by the Registrar within the seven-day period, the Manager of Admissions will action the penalties outlined in the letter of reprimand.

## 10. CONDITIONAL ADMISSION

Admission decisions are based on the information available at the time that the application is reviewed. Conditional *Offers of Admission* may be issued in anticipation of fulfillment of the admission requirements by the appropriate deadline (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)).

*Offers of Admission* are not reissued upon fulfillment of the conditions. However, Student Enrolment and Registrar Services will issue a letter confirming that all conditions have been met upon request by the applicant.

Admission may be rescinded and/or registration privileges may be restricted if official documentation that confirms the applicant's eligibility for admission is not received by Student Enrolment and Registrar Services by the appropriate deadline (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). In cases where the applicant does not fulfill the specific requirements or maintain a competitive admission average, the University will offer the applicant admission to an alternate program, if possible. If a decision to rescind an *Offer of Admission* is made within two weeks prior to the start of or during the term, and admission to an alternate program is not possible, the applicant may be allowed to complete the term as an Open Studies student (see **Registration, Open Studies Student, p. 39**).

See also **Misrepresentation/Falsified Documents (p. 31)**.

### a. Applicants Currently Attending High School

*Offers of Admission* to applicants who are currently completing secondary courses at a high school or upgrading at a post-secondary institution, in Canada or elsewhere, will be conditional upon satisfactory completion of courses in progress. Satisfactory completion is defined as final grades and averages that meet or exceed the minimum general and program admission requirements, including current competitive standards.

### b. Applicants Currently Attending Post-Secondary

*Offers of Admission* to applicants who are currently attending a post-secondary institution in Canada or elsewhere, including the University of Lethbridge, will be based on all courses and grades reported to date, provided they are in their last year of study at their current institution. Such offers will be conditional upon satisfactory completion of all outstanding courses prior to the appropriate deadline. Satisfactory completion is defined as final grades and GPAs that meet or exceed the minimum general and program admission requirements, including current competitive standards.

## 11. TRANSFER CREDIT

Many applicants are eligible to have some or all previous post-secondary credit courses assessed for transfer credit toward completion of their University of Lethbridge program. Transfer of credit serves to reduce the number of courses that must be completed at the University of Lethbridge in order to complete a program of studies. Not all transfer credit granted will necessarily satisfy program requirements.

Transfer of credit is not available to students enrolled in classes at the University who have not been admitted to programs (i.e., transfer of credit is not available to exchange, Open Studies, or visiting students). See also **Academic Regulations, Waiver of Prerequisite/Corequisite (p. 56)**.

The University of Lethbridge Transfer Credit Equivalencies Database (TED) provides information about prior assessment of courses completed at other post-secondary institutions for credit at the University of Lethbridge (see [www.ulethbridge.ca/ross/ted](http://www.ulethbridge.ca/ross/ted)). Transfer Alberta provides information on previously approved transferable courses and programs between many post-secondary institutions in Canada and the University of Lethbridge (see [transferalberta.alberta.ca](http://transferalberta.alberta.ca)).

### a. Transfer Policies

1. The University of Lethbridge recognizes courses completed for credit at other post-secondary institutions in accordance with the Alberta Council on Admissions and Transfer (ACAT) member institutions and other accredited post-secondary institutions. The University of Lethbridge aligns its transfer policies with the Pan-Canadian Protocol on the Transferability of University Credits, and the Lisbon Recognition Convention.

The Province of Alberta recognizes four Comprehensive Academic and Research Universities (CARUs) within the Campus Alberta system: the University of Lethbridge, Athabasca University, the University of Alberta, and the University of Calgary. Alberta's CARUs are committed to the advancement of Campus Alberta goals, including enhanced learner movement within the advanced education system. To facilitate mobility, the four CARUs accept each other's credit courses for transfer, subject to meeting minimum grade requirements.



2. Transfer credit for previously completed post-secondary courses is assessed and granted at the point of admission to a University of Lethbridge program. It is the responsibility of the applicant to provide full and complete information on all previous post-secondary records to support the application of transfer credit assessment. Detailed course outlines and other course materials may be necessary to assess previously completed courses for transfer credit. Such materials should be submitted to Student Enrolment and Registrar Services as soon as an *Application for Admission* has been made and no later than the **end of the student's first term** as a registered student. Certified translations must accompany materials not written in English. Failure to provide requested materials relieves the University of Lethbridge of responsibility to grant transfer credit.
3. Transfer credit is granted at the institutional level for credit courses that were completed and assigned a passing grade. Students should review the institutional transfer credit granted and their program requirements to determine which courses can be used to meet their program requirements. Students should consult with the appropriate academic advising office if they have questions regarding which granted transfer credit may be used to meet their program requirements after admission and if they later change to a different program.
4. The assessment of a credit course considers factors such as course level and learning outcomes. Transfer credit is granted only for courses transferring as University of Lethbridge courses numbered 1000 or higher subject to meeting minimum grade requirements.
5. A course shall be counted only once to satisfy the requirements of post-secondary degree qualifications. Transfer credit will not be granted for courses used for credit toward another baccalaureate degree.
6. Courses may be assessed and combined for the granting of transfer credit at the University of Lethbridge only if they were taken at the same post-secondary institution.
7. Transfer credit will not be granted in place of courses previously successfully completed at the University of Lethbridge.
8. Transfer credit will not be granted for courses in Theology or Ministerial Preparation, or courses completed at private vocational schools.
9. The University of Lethbridge does not grant transfer credit on the basis of Challenge for Credit or Prior Learning Assessment and Recognition.
10. Transfer agreements reflecting courses approved for transfer from member institutions of the Alberta Council on Admissions and Transfer are published in the Alberta Transfer Guide ([transferalberta.alberta.ca](http://transferalberta.alberta.ca)). A published transfer arrangement will also be honoured for students who completed the course in the year prior to the effective date.
11. Use of Transfer Course Grades  
 Transfer credit is granted as ungraded credit and grades earned on transfer courses are not included in official grade point average (GPA) calculations on the University of Lethbridge transcript.  
 For the purposes of calculating admission GPAs, actual grades earned will be preserved in the student's official record and converted to the University of Lethbridge 4.00 GPA.  
 Student Enrolment and Registrar Services develops and applies grade conversion standards, under the authority of the Admission Standards Committee.
12. Transfer of Credits for University of Lethbridge Students Studying Elsewhere  
 Continuing students who are required to or wish to take courses offered by other post-secondary institutions for credit toward their program at the University of Lethbridge must obtain Visiting or Exchange Student Authorization from their Faculty or School. The courses to be taken during the visiting or exchange term must be specified at the point of approval.  
 Course materials may be requested to assess the proposed courses for transfer credit. Visiting students must provide certified translations for any course materials not written in English.  
 Approved transfer credit will be granted by Student Enrolment and Registrar Services upon receipt of official academic transcripts from the designated institution. It is the student's responsibility to arrange for the submission of an official academic transcript. Courses completed by admitted students on an authorized exchange program will be preserved as Pass/Fail.  
 Transfer credit will only be granted when Visiting or Exchange Student Authorization is obtained in advance of the completion of studies.  
 Further information on registration procedures for visiting and exchange students may be found in **Registration, Visiting and Exchange Students (p. 39)**.
13. Student Enrolment and Registrar Services is responsible for maintaining records of all transfer evaluations at the University.
14. Student Enrolment and Registrar Services is the final authority with respect to the evaluation and assignment of transfer credit.

#### b. Re-evaluation of Transfer Credit Decisions

A student wanting to contest a decision regarding a transfer credit evaluation shall have **one full year** from the beginning of the term of admission to submit additional documentation in a petition for re-evaluation of the transfer credit decision. The petition for re-evaluation shall be made in writing to Student Enrolment and Registrar Services and must set out the student's rationale for seeking a re-evaluation.

The University of Lethbridge will only re-evaluate a course for transfer credit once per student when a petition for re-evaluation is accompanied by additional, sufficient, supporting documentation from what was originally submitted and/or requested (E.g. course scheduling information, course assignments, requisites). The outcome of the transfer credit re-evaluation, including rationale, shall be communicated in writing to the student upon completion of the assessment process.

### 12. INFORMATION FOR INCOMING VISITING STUDENTS

Individuals currently enrolled in a degree program at another recognized degree-granting institution who wish to enrol in courses at the University of Lethbridge for credit at their home institution are advised to request a *Letter of Permission* issued by their home institution.

Visiting students register for courses as Open Studies students. It is the responsibility of the Visiting student to meet any applicable course prerequisites. Registration in specific courses is not guaranteed. For additional information, see **Registration, Open Studies Student (p. 39)**.

### 13. INFORMATION FOR INCOMING EXCHANGE STUDENTS

Exchange students are admitted on the basis of formal agreements between the University of Lethbridge and another post-secondary institution. Students who would like to participate in an exchange program at the University of Lethbridge apply through their home university.

Exchange students register for courses as Open Studies students. It is the responsibility of the exchange student to meet any applicable course prerequisites. Registration in specific courses is not guaranteed. For additional information, see **Registration, Open Studies Student (p. 39)**.

English Language Proficiency requirements do not apply to exchange students.

### 14. GENERAL POLICIES FOR ALL APPLICANTS

#### a. Student Status

A person who has applied for admission to a program of studies in an undergraduate or graduate program at the University of Lethbridge, either in a full-time, part-time, visiting or any other category of admission, shall not be considered a 'student' for the purposes of the rights and privileges accorded to a student of the University of Lethbridge, until the date that the person commences academic studies at the institution.

This same restriction in its entirety applies to Open Studies students and authorization to register.

#### b. Access to Courses

The University of Lethbridge guarantees that admitted students will have timely access to courses required to complete the student's program. However, admission to the University does not constitute a guarantee that a student will be able to register for any particular course in a given term.

#### c. Enrolment Limits

The University of Lethbridge does not guarantee that students who meet the published minimum requirements will be admitted to any Faculty or School, program, or major. In cases where the number of qualified applicants exceeds the number that can be accommodated, the University reserves the right to limit enrolment in a Faculty or School, or program and to establish minimum criteria beyond the minimum published requirements without advanced notice.

#### d. Year of the Calendar

A student admitted or readmitted to the University is governed by the **program requirements of the Calendar in effect at the time of the most recent admission** (see **Academic Regulations, Program Requirements, p. 57**).

Transfer students from institutions other than those with which the University has established transfer arrangements will be treated according to current policies for new student admissions, and therefore be subject to all the requirements of the Calendar in effect at the time of the most recent admission.

Students continuously registered in a formally-approved transfer program or in transferable courses at a post-secondary institution in the Alberta Council of Admission and Transfer are normally admitted and governed under the Calendar of the year of admission to the University of Lethbridge. However, students may opt to be governed by any Calendar from the one in effect at the point of most recent admission to the Transfer Alberta system to the Calendar in effect at the point of admission to the University of Lethbridge by applying to their Faculty or School Academic Advising or Student Program Services office.

The University also recognizes transfer arrangements with the College of the Rockies, Medicine Hat College and Selkirk College. Students who attend the University of Lethbridge under the dual admission agreement will be subject to the Academic Calendar in effect at the point of admission to the University of Lethbridge.

#### e. Simultaneous Enrolment

No student will be permitted to enrol in a University of Lethbridge credential program while simultaneously working towards a credential at another institution. This policy does not apply to students studying at a partner institutions who have been admitted under the University of Lethbridge's Dual Admission (see **Dual Admission, p. 28**) or Dual Degree agreement with that institution.

**15. CAVEAT - AUTHORITY TO RESCIND ADMISSION/REGISTRATION PRIVILEGES**

- a. Until modified by resolution of the Board, the President shall have the power and authority in his/her capacity as President, and as representative of the Board of Governors, to rescind any application for admission to an undergraduate studies program or graduate studies program at the University of Lethbridge, either in a full-time, part-time, visiting, or any other category of admission, at any time prior to the date that the applicant commences academic studies at the University or the first day of the academic term/session for which the application applies, whichever shall occur last. This same presidential authority in its entirety applies to Open Studies students and authorization to register.
- b. The powers of the President to rescind any application for admission or any applicant, or to rescind authorization to register from Open Studies students, may be exercised in any circumstance where the President in his/her sole discretion determines that:
  1. The individual represents a potential risk to the safety, security or well-being of members of the University community, including, but not restricted to, students, faculty, and administration.
  2. The best interests of the University outweigh the inclusion of the individual as a student at the University.
- c. The foregoing powers of the President may be exercised, notwithstanding that an applicant may have been provided a notification of acceptance into a program or course of study at the University of Lethbridge, and any such decision shall be final and without appeal to any body in the University of Lethbridge.
- d. Such students may be considered for Open Studies status or readmission only by the President, normally after the lapse of one year. Students must provide evidence that the issues leading to the rescinding of admission/registration privileges have been addressed.



# REGISTRATION

<b>1. STUDENT RECORDS RETENTION POLICY . . .</b>	<b>38</b>	<b>6. REGISTRATION LIMITATIONS . . . . .</b>	<b>40</b>
<b>2. ADVICE AND INFORMATION . . . . .</b>	<b>38</b>	a. Academic Timetable Conflicts. . . . .	40
<b>3. TERMS USED DURING REGISTRATION. . . . .</b>	<b>38</b>	b. Maximum Credit Hours . . . . .	40
a. The Bridge . . . . .	38	c. Duplication of Registration. . . . .	41
b. Year of Student . . . . .	38	d. Faculty and School Quotas . . . . .	41
c. Full-time and Part-time . . . . .	38	e. Registration Holds. . . . .	41
d. Visiting and Exchange Students. . . . .	39	f. Registration Restrictions . . . . .	41
e. Audit a Course. . . . .	39	g. Prerequisites and Corequisites . . . . .	41
f. Open Studies Student. . . . .	39	<b>7. CLASSROOM PRIVILEGES. . . . .</b>	<b>41</b>
<b>4. WHEN TO REGISTER. . . . .</b>	<b>40</b>	<b>8. COURSE REGISTRATION . . . . .</b>	<b>42</b>
a. Continuing Admitted Students . . . . .	40	a. Cancel/Drop Registration . . . . .	42
b. Newly Admitted Students Including Those Returning After an Absence. . . . .	40	b. Waitlists . . . . .	42
c. Applied Studies . . . . .	40	<b>9. WITHDRAWAL . . . . .</b>	<b>42</b>
d. Dual Admission Students . . . . .	40	a. Course Withdrawal. . . . .	42
e. Open Studies Students . . . . .	40	b. Complete Withdrawal . . . . .	42
f. Graduated Students . . . . .	40	c. Withdrawal with Cause . . . . .	42
<b>5. ORDER OF PRIORITY REGISTRATION. . . . .</b>	<b>40</b>	d. Part-time Reclassification . . . . .	42
		<b>10. APPEAL OF REGISTRATION . . . . .</b>	<b>42</b>

## 1. STUDENT RECORDS RETENTION POLICY

The permanent official record for each student is maintained by Student Enrolment and Registrar Services. The student record shall be purged according to the following schedule:

- For students who have graduated, five years after the most recent registration activity of any description, except for those files containing documents pertaining to disciplinary action.
- For students who have not graduated, seven years after the most recent registration activity of any description, except for those files containing documents pertaining to disciplinary action.

Student Enrolment and Registrar Services shall maintain the student's electronic record according to the policies governing admission, registration, and academic history.

For more information, see Confidentiality of Student Records Policy ([www.ulethbridge.ca/policy/confidentiality-student-records](http://www.ulethbridge.ca/policy/confidentiality-student-records)).

## 2. ADVICE AND INFORMATION

Students who require advice or additional information regarding their programs during registration should consult their respective academic advising office ([www.ulethbridge.ca/ross/academic-advising](http://www.ulethbridge.ca/ross/academic-advising)).

Students who require other kinds of information and advice about registration, such as deadlines and procedures, should consult the Student Enrolment and Registrar Services website at [www.ulethbridge.ca/ross](http://www.ulethbridge.ca/ross), email [regoffice@uleth.ca](mailto:regoffice@uleth.ca), phone (403) 320-5700, or visit the Information Centre (SUI40).

**Students are responsible for the accuracy and completeness of their own registration, and are liable for the fees for courses in which they are registered.**

Students who decide not to attend the University must cancel/drop their registration on the Bridge prior to the Extended Drop deadline (see **Course Registration**, p. 42).

## 3. TERMS USED DURING REGISTRATION

### a. The Bridge

The University's online registration system is available for all students on the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)). Continuing students and newly admitted students who have activated their enrolment by accepting their *Offer of Admission* and paying their tuition deposit will receive full instructions on how to complete registration on the Bridge via their University of Lethbridge email.

### b. Year of Student

Students are classified by year according to the number of credit hours they have successfully completed; this does not include courses in which the student is currently registered.

Year	Successfully Completed Credit Hours	(Term Course Equivalents)
1	0 - 29.5	(0 - 9)
2	30 - 59.5	(10 - 19)
3	60 - 89.5	(20 - 29)
4	90 - 119.5	(30 - 39)
5	120 and above	(40 and above)

### c. Full-time and Part-time

#### 1. Full-time and Part-time Credit Load

A full-time undergraduate student is registered in a minimum of 9.0 credit hours or one Co-operative Education Work Experience course per term. The usual course load for a full-time undergraduate student is 15.0 credit hours per term.

A part-time undergraduate student is registered in fewer than 9.0 credit hours.

For more information, see **Full-time Student (p. 537)** and **Part-time Student (p. 539)** in the Glossary.

#### 2. Maximum Credit Load

Each Faculty and School has legislated maximum enrolment per term for continuing students, including those in good standing and those on probation. For more information see **Maximum Credit Hours (p. 40)**, and the Academic Standards section in the applicable Faculty/School part of the Calendar.

#### d. Visiting and Exchange Students

##### 1. University of Lethbridge Students Studying Elsewhere (Outgoing)

Within the residence requirement of the Faculty or School in which they are enrolled, continuing students in good standing at the University of Lethbridge may be authorized to take courses at another post-secondary institution. Students who are required to or wish to study as an authorized visiting or exchange student at another institution must follow these procedures:

- a. Students must apply using an *Application for Visiting Student Authorization* form or an *Application for Exchange Student Authorization* form from the appropriate Faculty or School. Approval in writing **must** be obtained from the appropriate Faculty or School prior to commencement of studies elsewhere. Refer to the **Academic Schedule (p. 15)** for applicable deadlines.
- b. The student is registered in a placeholder course during terms of approved absence from the University of Lethbridge. This allows the student to retain continuing student status.
- c. The student will register along with other continuing students for the term following the approved absence, according to the registration instructions for continuing students.
- d. If the student wishes to extend the approved absence, prior approval must be obtained from the appropriate Faculty or School. Otherwise, when the student subsequently applies for readmission, it will be according to the policies and procedures pertaining to students returning after an absence (see **Admission, Returning After an Absence, p. 28**).
- e. It is the responsibility of the student to ensure that an official academic transcript of grades earned as a visiting or exchange student at another institution is sent to Student Enrolment and Registrar Services. See also **Admission, Transfer of Credits for University of Lethbridge Students Studying Elsewhere (p. 33)**.

For some University of Lethbridge programs, students are required to take courses at another institution under a Visiting Student Authorization. In these circumstances, courses taken under Visiting Student Authorization will be counted as University of Lethbridge courses for residence requirement purposes (see **Academic Regulations, Residence Requirements and Time Limits, p. 58**).

##### 2. Students from Other Institutions (Incoming)

Visiting and exchange students from other institutions register for courses at the University of Lethbridge as Open Studies students (see **Open Studies Student, p. 39**).

See also **Admission, Information for Incoming Visiting Students (p. 34)** and **Information for Incoming Exchange Students (p. 34)**.

#### e. Audit a Course

To audit a course, a student must have permission from the instructor to attend classes with the understanding that the student may not participate in class discussions (except by invitation of the instructor), submit assignments or sit for examinations. No course credit is granted for the course. An *Audit Registration* form must be submitted to Student Enrolment and Registrar Services by the indicated deadline. Refer to the **Academic Schedule (p. 15)** for applicable deadlines.

English Language Proficiency (ELP) is not a requirement to audit a course.

Non-admitted students auditing a course are granted the same access to University services as community users.

#### f. Open Studies Student

Open Studies student registration allows individuals to register in courses without being admitted to a University program. Registration as an Open Studies student is available to any individual not currently admitted to a University program, with some restrictions.

The following conditions apply to registration as an Open Studies student:

1. Open Studies student enrolment does not constitute formal admission to a University program.
2. Students must complete the *Open Studies Registration* form and submit it, along with the registration fee and deposit, to Student Enrolment and Registrar Services each term.
3. Upon subsequent application for admission or readmission to a University of Lethbridge program, courses completed via Open Studies may be counted for credit toward the student's program only with the expressed permission of the Faculty or School offering that program. See the appropriate Faculty/School part for more information.
4. Open Studies students must meet the University's English Language Proficiency (ELP) Requirement (see **Admission, English Language Proficiency (ELP), p. 30**).
5. While under Open Studies student status, students are allowed a maximum of two grades below 'C-' at the undergraduate level. Any subsequent grade below 'C-' will result in permanent suspension of Open Studies student registration privileges. When an Open Studies student's registration privileges has been suspended, the student may not register in a course until they have been admitted to a University of Lethbridge program.
6. Open Studies students are not eligible to use the Credit/Non-Credit designation.
7. Open Studies students may apply for admission or readmission to a University of Lethbridge program. Courses completed via Open Studies student registration are considered in the admission decision process.
8. Only students who are admitted to a University of Lethbridge program may graduate with a University of Lethbridge credential. Open Studies students, including those who have been required to withdraw, must be admitted to a University program before they will be permitted to graduate. Students must fulfill program admission requirements for the Calendar year of admission. Students should see academic advising with regard to their Calendar year and graduation requirements.



#### 4. WHEN TO REGISTER

##### a. Continuing Admitted Students

Students currently registered at the University will receive an email to their University of Lethbridge email account with instructions on registering for courses.

##### b. Newly Admitted Students Including Those Returning After an Absence

Newly admitted students, including those returning after an absence, who have accepted their *Offer of Admission* and paid the tuition deposit will have access to the registration period in effect the day after the deposit is received. If the deposit is received prior to the early registration period, access will be granted to the earliest applicable registration period.

##### c. Applied Studies

Registration in Applied Studies courses is initiated by application to the Career Bridge no later than the published deadline. For more information. See **Applied Studies and Co-operative Education, p. 339**.

##### d. Dual Admission Students

Dually admitted students who have activated their enrolment by accepting their *Offer of Admission* and paying the tuition deposit will have access to the registration period in effect the day after the deposit is received. If the deposit is received prior to the early registration period, access will be granted to the earliest applicable registration period.

##### e. Open Studies Students

Open Studies registration dates for each term are published in the **Academic Schedule (p. 15)**.

##### f. Graduated Students

A student who has graduated from a program at the University must successfully apply for admission to another program or submit an *Open Studies Registration* form in order to continue studies (see **Open Studies Student, p. 39**).

Students who fail to complete registration by the specified add deadline and are permitted to register late will be assessed a late fee (see **Fees, Optional Service Fees, p. 48**).

**Note:** Students who have been verified as having a disability may receive assistance with registration from the Accommodated Learning Centre.

#### 5. ORDER OF PRIORITY REGISTRATION

Registration occurs in the following order:

- Graduate students.
- Fourth-year and higher-standing undergraduate students, including second degree students, Dhillon School of Business Certificate, and Post-Bachelor Certificate students.
- Third-year standing undergraduate students, including first-year post-diploma students.
- Second-year standing undergraduate students.
- First-year standing undergraduate students.
- English for Academic Purposes (EAP) students.
- Open Studies students, including incoming Exchange and Visiting students.
- Students auditing courses.

#### 6. REGISTRATION LIMITATIONS

##### a. Academic Timetable Conflicts

Students may not register in classes that overlap or create time conflicts. To avoid delays at registration, students should consult the current term Academic Timetable and register in courses as soon as possible.

##### b. Maximum Credit Hours

During early registration, the maximum number of credit hours in which a student may register is 16.5 (five and one half course equivalents). Beginning on the first day of classes, students may increase their loads to the maximum allowed by their respective Faculty or School. Most courses carry a credit load of 3.0 credit hours; some courses carry more and some carry fewer credit hours.

Students wishing to register in more than the maximum credit hours (term course equivalents) allowed must obtain approval of the Faculty or School in which they are enrolled.

##### Fall/Spring Term

Faculty/School	Maximum Credit Hours (Term Course Equivalents)
Faculty of Arts and Science	Probation: 12.0 (4) Good Standing Normal: 16.5 (5.5) Maximum: 18.0 (6)
Faculty of Education	18.0 (6) in a non-practicum term
Faculty of Fine Arts	16.5 (5.5)

**Fall/Spring Term**

Faculty/School	Maximum Credit Hours (Term Course Equivalents)
Faculty of Health Sciences	16.5 (5.5)
Dhillon School of Business	Probation: 12.0 (4) Good Standing Normal: 16.5 (5.5) Maximum: 18.0 (6)

**Summer Session**

Faculty/School	Maximum Credit Hours (Term Course Equivalents)				
	Session I (May-June)	Session II (July)	Session III (August)	Session II/III (July-August)	Full-term (May-August)
Faculty of Arts and Science	6.0 (2)	6.0 (2)	6.0 (2)		
Faculty of Education	9.0 (3)	6.0 (2)	3.0 (1)		
Faculty of Fine Arts	9.0 (3)	6.0 (2)	6.0 (2)		
Faculty of Health Sciences	9.0 (3)	6.0 (2)	3.0 (1)		
Dhillon School of Business	9.0 (3) <sup>1</sup>	3.0 (1) <sup>1,2</sup>	3.0 (1) <sup>1,2</sup>	9.0 (3) <sup>1,2</sup>	18.0 (6) <sup>1</sup>

<sup>1</sup> The maximum number of credit hours Dhillon School of Business students may take over all summer terms is 18.0. Full-term courses must be included in the maximum credit hours for all sessions.

<sup>2</sup> The maximum number of credit hours Dhillon School of Business students may take over Summer Sessions II, III, and II/III combined is 9.0.

**Note:** In the event of a difference between the maximum credit hour limits set by each Faculty or School, students in combined degrees programs will be governed by the more stringent limits.

**c. Duplication of Registration**

A student may not maintain registration in more than one section of a course offering in a term or session.

**d. Faculty and School Quotas**

Admission to the University does not constitute a guarantee that a student will be able to register in any specific course in a given term. Enrolment limits are enforced by the Faculties and Schools.

**e. Registration Holds**

The University may place holds on a student's registration privileges due to outstanding fees, academic or non-academic offences, etc. Students should consult an academic advisor if they have questions about their registration hold.

**f. Registration Restrictions**

Registration in some course sections may be restricted to students based on admitted degree, major, year of study, etc. Students unable to register for courses required in their program should consult an academic advisor.

**g. Prerequisites and Corequisites**

Course prerequisites and corequisites must be met where applicable. Faculties and Schools are responsible for ensuring course prerequisites and corequisites have been met.

Students may possess some educational experience that provides much of the background usually acquired in a prerequisite or corequisite to a particular course. In such cases, the student may seek the permission of the Faculty or School to waive the prerequisite(s) and/or corequisite(s) for that course.

Application for a prerequisite/corequisite waiver must be made through the department offering the course. If written permission is granted, a student may register in a course without having completed the prerequisite(s) and/or corequisite(s). Students do not receive credit for the waived prerequisite(s) or corequisite(s).

If a prerequisite or corequisite course is specifically required in a program or major, the student must register in and successfully complete it unless a substitution has been approved by the Dean.

**7. CLASSROOM PRIVILEGES**

Students have classroom privileges for the course offering(s) in which they are registered or auditing. Individuals who are not registered in or have dropped or withdrawn from a course do not have course-related privileges and may not attend any classes for that specific course. Instructors may authorize guests to attend a class.

## 8. COURSE REGISTRATION

Courses may be added until the Add/Drop deadline and cancelled/dropped until the Extended Drop deadline, as shown in the **Academic Schedule (p. 15)**. No changes to registration other than withdrawals from individual courses are permitted after the Extended Drop deadline.

### a. Cancel/Drop Registration

All students must cancel/drop their registration using the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)).

Open Studies students who cancel/drop their registration by the Extended Drop deadline in a term forfeit the non-refundable deposit and the non-refundable Open Studies student registration fee.

Students who register and decide not to attend but DO NOT cancel/drop their registration by the Extended Drop deadline will be assessed tuition and compulsory fees (see **Fees, Cancellations, Refunds and Withdrawals, p. 46**).

### b. Waitlists

Waitlists for specific courses may be created by Faculties/Schools. For information regarding waitlists, please see [www.ulethbridge.ca/ross/registration/register/waitlists](http://www.ulethbridge.ca/ross/registration/register/waitlists).

## 9. WITHDRAWAL

Students can withdraw from courses after the Extended Drop deadline up to and including the last day of classes in a term or session as specified in the **Academic Schedule (p. 15)**. A 'W' designation is assigned for each course from which a student withdraws (see **Academic Regulations, Grading, p. 52**).

Failure to withdraw results in the assignment of grades by the instructor for the course(s) in which the student is registered. Students are responsible for ensuring that they withdraw on the Bridge by the relevant deadline (see **Academic Schedule, p. 15**).

### a. Course Withdrawal

An undergraduate student wishing to withdraw from one or more courses in the term, but not all courses, must withdraw on the Bridge by the relevant deadline (see **Academic Schedule, p. 15**).

### b. Complete Withdrawal

An undergraduate student may completely withdraw from their courses by logging into the Bridge and withdrawing from their courses by the relevant deadline (see **Academic Schedule, p. 15**). Students considering complete withdrawal should consult their Faculty or School academic advising office prior to completely withdrawing their registration.

### c. Withdrawal with Cause

Withdrawal with Cause is granted only in the case of serious illness or other extenuating circumstances beyond the control of the student, which makes continuation in a term or course impossible and where an 'Incomplete' designation is not in order. For admitted students, the 'WC' is recorded only upon application to and approval from the Faculty or School advising office. For Open Studies students, the 'WC' is recorded only upon application to and approval from Student Enrolment and Registrar Services. A student seeking Withdrawal with Cause from one or more courses must contact their Faculty/School Dean's office for review and approval.

### d. Part-time Reclassification

Withdrawing from one or more courses may result in a reclassification from full-time to part-time status (see **Full-time and Part-time, p. 38**). Students who drop from full-time to part-time status may not receive the same privileges as full-time students at the University. Furthermore, students who access government student loans and drop to part-time status may have their eligibility for future student loans and the terms of repayment of current loans affected. For more information, students should consult an academic advisor.

## 10. APPEAL OF REGISTRATION

Students dissatisfied with decisions regarding registration are entitled to a review by the Assistant Registrar.

If still dissatisfied after this review, the student may address a written appeal to the Registrar who renders the final decision.

Students who wish to appeal decisions regarding retroactive adjustments to registration have two months from the last day of the term or summer session during which the course(s) in question were registered.

# FEES

<b>1. DISCLAIMER</b> .....	<b>44</b>	<b>5. NON-REFUNDABLE APPLICATION AND REGISTRATION FEES.</b> .....	<b>46</b>
<b>2. SELF-SERVICE RESOURCES AND GENERAL INFORMATION</b> .....	<b>44</b>	a. Application for Admission to Credential Programs .....	<b>46</b>
a. Fees and Payments .....	<b>44</b>	b. Registration for Open Studies .....	<b>46</b>
b. Anticipated Payments .....	<b>44</b>	c. Application for Admission to English for Academic Purposes .....	<b>46</b>
c. Government Loans and Grants .....	<b>44</b>	d. Application fee for Indigenous Student Success Cohort .....	<b>46</b>
d. Scholarships and Bursaries .....	<b>44</b>	<b>6. NON-REFUNDABLE DEPOSITS</b> .....	<b>46</b>
e. Holds Applied to Outstanding Accounts .....	<b>44</b>	a. Confirmation of Admission .....	<b>46</b>
f. Receipts and Tax Forms .....	<b>44</b>	b. Open Studies Tuition Deposit .....	<b>46</b>
g. Definitions .....	<b>44</b>	c. English for Academic Purposes Tuition Deposit .....	<b>46</b>
<b>3. PAYMENTS</b> .....	<b>45</b>	<b>7. FEES</b> .....	<b>47</b>
a. Accepted Payment Methods .....	<b>45</b>	a. Compulsory Fees .....	<b>47</b>
b. Fee Deadlines and Automatic Cancellation ..	<b>45</b>	b. Program-related Fees .....	<b>48</b>
c. Interest .....	<b>45</b>	c. Optional Service Fees .....	<b>48</b>
d. First Charge for Bursaries and Scholarships ..	<b>45</b>	d. Fee Schedules .....	<b>49</b>
e. Collection Practices .....	<b>45</b>	<b>8. IMPORTANT DATES AND FEE DEADLINES</b> ...	<b>50</b>
<b>4. CANCELLATIONS, REFUNDS AND WITHDRAWALS</b> .....	<b>46</b>		
a. Cancellations .....	<b>46</b>		
b. Refunds .....	<b>46</b>		
c. Withdrawals .....	<b>46</b>		

## I. DISCLAIMER

The fees stated in this Calendar are correct at the time of publication. The University reserves the right to alter fees without notice. Refer to the Undergraduate Calendar and Course Catalogue at [www.uleth.ca/ross/academic-calendar](http://www.uleth.ca/ross/academic-calendar) for the most current information.

## 2. SELF-SERVICE RESOURCES AND GENERAL INFORMATION

### a. Fees and Payments

The University provides a **self-service** option via the Bridge website available at [www.uleth.ca/bridge](http://www.uleth.ca/bridge) for viewing the *Account Summary by Term* report, which includes fees charged and payments received by term. The University will send invoices to students' University of Lethbridge email accounts in advance of key deadlines. **Paper statements are not mailed.** Inquiries about fees are directed to the Cash Office (AH144; 403-329-2469; [cash.office@uleth.ca](mailto:cash.office@uleth.ca)).

### b. Anticipated Payments

Awarded student loans, sponsorships and other payments can be viewed on the Bridge in the *Account Summary by Term* report. Anticipated payments verified as in transit by the Cash Office can be viewed using the *Anticipated Financial Aid* link on the *Account Summary by Term* page. Anticipated funds are considered payments-in-progress and stop the assessment of interest charges and cancellation for non-payment processes, for charges up to or equal to the amount of funds expected to be received.

### c. Government Loans and Grants

Students receive government approved student loans personally, with no portion coming to the University to pay for their semester charges directly.

Inquiries are directed to the Scholarship and Student Finance office (AH115; 403-329-2585).

For more information please see the Scholarship and Student Finance Website ([www.uleth.ca/ross/student-finance](http://www.uleth.ca/ross/student-finance)).

### d. Scholarships and Bursaries

Inquiries are directed to the Scholarships and Student Finance office (AH115; 403-329-2585).

For more information please see the Scholarship and Student Finance Website ([www.uleth.ca/ross/student-finance](http://www.uleth.ca/ross/student-finance)).

### e. Holds Applied to Outstanding Accounts

Cash holds are placed on student accounts after fee deadlines when there is an outstanding balance owing. Students with outstanding fees on their account will not be able to apply to graduate or receive parchments, registration privileges, access to the Tuition and Enrolment Certificate (T2202 tax form) or official academic transcripts until all fees are paid in full.

### f. Receipts and Tax Forms

Students can verify payments on their account by viewing the *Account Summary by Term* report on the Bridge ([www.uleth.ca/bridge](http://www.uleth.ca/bridge)). Printed receipts are not issued unless requested to the cash office. The Tuition and Enrolment Certificate (T2202) required for completing personal tax returns is available for download from the students' Bridge accounts by the end of the following February. The Canada Revenue Agency (CRA) requires all students include their social insurance number (SIN) on the T2202 form. This can be entered on the student's Bridge Account under Personal Information - Update Social Insurance Number. This will update the student's record so that the form includes the social insurance number. Students will be charged \$5 for a printed T2202 from the Cash Office.

### g. Definitions

- **Add/Drop Date** - The final day to register in courses for the term or session. See the **Academic Schedule (p. 15)**.
- **Domestic Student** - Any student who is a Canadian citizen, Permanent Resident, protected person in accordance with the Immigration and Refugee Protection Act, or is a holder of a diplomatic visa issued by the Government of Canada. Classification as a domestic student affects fee assessment only.
- **Extended Drop Deadline** - The final day to drop courses (cancel registration) without incurring 100% of tuition, compulsory, and program-related fees. See the **Academic Schedule (p. 15)**.
- **Full-time** - Any student who is currently registered in 9.0 credit hours or more in a term. Students enrolled in Co-operative Education Work Experience courses are considered to be full-time. This definition of full-time may not be the same as the definition used by the Canada Revenue Agency (CRA) for the preparation of the Tuition and Enrolment Certificate (T2202). For more information, see **Registration, Full-time and Part-time (p. 38)**.
- **International Student** - Any student who is not a resident of Canada. Classification as an international student affects fee assessment only. New international students and international students who receive their Landed Immigrant status or Canadian citizenship while registered in courses at the University must present their official Landed Immigrant documentation or Canadian Citizenship card at the Registrar's Office no later than January 31 for the spring term, May 31 for the summer term, the last day of classes in each summer session, and September 30 for the fall term to be eligible for Canadian fee assessment rates.
- **On-campus** - Any student who is registered in courses delivered remotely or in-person at the University of Lethbridge main campus in Lethbridge, Alberta.
- **Off-campus** - Any student who is registered only in courses offered through satellite campuses held off the main University campus.
- **Part-time** - Any student who is currently registered in fewer than 9.0 credit hours in a term. For more information, see **Registration, Full-time and Part-time (p. 38)**.
- **Senior Citizen** - Any student 65 years of age or over does not pay fees except for the *Application for Admission fee* or *Registration fee* (if attending as an Open Studies student).

### 3. PAYMENTS

Payment is considered made to the University of Lethbridge on the date it is received by the University of Lethbridge, either in the university bank account or at the Cash Office.

#### a. Accepted Payment Methods

1. Online – Electronic Funds Transfer (EFT), Wire, or online bank payments - Bill payments through a domestic bank  
Available at most domestic banks and financial institutions in Canada. Add the University of Lethbridge as a payee and use the nine-digit student ID number as the account/customer number. Students should contact their bank for more information about bill payment service.  
**Note:** Allow four working days for processing. Payments must be received by applicable deadlines to avoid interest and cancellation policies.
2. Mail or courier  
Cheques in Canadian or US dollar funds are accepted if addressed to the University of Lethbridge and directed to:  
University of Lethbridge Cash Office  
4401 University Drive West  
Lethbridge, AB T1K 3M4  
**Note:** Payments must be received by applicable deadlines to avoid interest and cancellation policies.
3. On-site secure drop box  
A 24-hour accessible drop box located at the east end of the Cash Office counter in Anderson Hall. Ensure student name and University ID number are included with the payment. Canadian or US cash, Canadian or US fund cheques are accepted.
4. Any Bank of Montreal branch  
Whether a client of the Bank of Montreal or not, students can bring a completed *First Bank Bill Payment Service* form to any Bank of Montreal branch for deposit to the University of Lethbridge. The form is available at [www.uleth.ca/financial-services/payment-methods](http://www.uleth.ca/financial-services/payment-methods). Bank service charges may apply.
5. In person  
The Cash Office, located in Anderson Hall (AH144), accepts cash, cheque, or debit payments from 9:00 a.m. to 3:30 p.m. Monday to Friday. Credit cards are not accepted.
6. Payments from non-Canadian sources – transfer via Western Union or Pay My Tuition  
For more information please see the Financial Services Website ([www.uleth.ca/financial-services/payment-methods-international](http://www.uleth.ca/financial-services/payment-methods-international)).

#### b. Fee Deadlines and Automatic Cancellation

Fees are due in full by **October 1** (fall term), **February 1** (spring term) and **June 1** (summer term and all summer sessions). When a deadline falls on a weekend, the deadline will be the next working day.

Failure to make a payment (excluding those made towards application fees, Open Studies registration fees, and tuition deposits) by the fall and spring fee deadlines will result in automatic cancellation of a student's registration in courses and access to services. Arrangements for sponsor payments will count as a payment towards student fees if these arrangements are received prior to the fee deadline. The anticipated funds that are set up can be viewed on the student's Bridge account under the *Account Summary by Term* page. University of Lethbridge scholarships and completion of the Health and Dental opt-out will also be counted as a payment towards the fee deadline. To be reinstated in courses for the term after cancellation, students are required to pay a \$100 reinstatement fee and make a payment toward their fee balance. Students who do not reinstate their registration in the term will lose their continuing student status. To resume studies, students must submit a new *Application for Admission* and pay related application fees and deposits.

#### c. Interest

Students who have made a partial payment by the fee deadline but have a balance owing after the fee deadline will be charged interest of the Bank prime lending rate plus five percent per annum on the outstanding balance, applied on the first working day of each successive month that the account remains unpaid. The interest rate will be set May 1 each year based on the prime rate posted that day. This rate will be applied for the entire year.

Subsequent payments will be applied first against interest charges and, thereafter, against the outstanding assessed charges.

#### d. First Charge for Bursaries and Scholarships

100% of current and outstanding fees are the first charge against bursaries and University of Lethbridge awarded or administered scholarships.

#### e. Collection Practices

Cash Office staff will administer collection practices and contact students about outstanding balances. Accounts will be transferred to a professional collection agency when deemed necessary.

#### 4. CANCELLATIONS, REFUNDS AND WITHDRAWALS

##### a. Cancellations

To cancel course registration (drop courses) before incurring a withdrawal grade on transcripts or incurring tuition, compulsory, and program-related fees, students must cancel their registration by the Extended Drop deadline for the term or session through the Bridge ([www.uleth.ca/bridge](http://www.uleth.ca/bridge)). For Extended Drop deadlines, see the **Academic Schedule (p. 15)**.

##### b. Refunds

*Cancellation* - When cancellation of course registration occurs prior to the Extended Drop deadline, related tuition, compulsory, and program-related fees for cancelled courses are reversed from the student's account, depending on the degree program.

*Over-payments* - Any eligible payment received on a student account that exceeds non-refundable fees incurred will be refunded to the student upon their request to the Cash Office. Date restrictions may apply to scholarship refunds.

Refunds can be received by cheque/direct deposit (within four weeks of request), or debit (Cash Office from 9:00 a.m. to 3:30 p.m. Monday to Friday with valid picture identification). Students are encouraged to take advantage of direct deposit refunds by entering their banking information on the Bridge - Student Account area, and will then contact the Cash Office to request the refund.

International students transferring to another Canadian post secondary institution may request their refund be paid directly to the new institution. Additional information and approvals from the student and institution would be required. Please contact the Cash Office directly to determine if this is an option for international refunds. Otherwise, international funds are refunded in the same method as they were originally received.

The University reserves the right to offer classes by varying modes of instruction, which may include classes being provided either in-person or by remote instruction. No fee refunds will be provided in the event the modality of how courses are delivered is changed.

##### c. Withdrawals

After the Extended Drop deadline, students can withdraw from a course or their complete registration up to the last day of classes in a term or session as specified in the **Academic Schedule (p. 15)**. After the Extended Drop deadline, courses are assessed 100% of tuition, compulsory, and program-related fees. See also **Registration, Withdrawal (p. 42)**.

#### 5. NON-REFUNDABLE APPLICATION AND REGISTRATION FEES

##### a. Application for Admission to Credential Programs

Application for Admission to Credential Programs Applicants for admission to the University of Lethbridge pay a non-refundable application fee, as follows:

- Domestic (all academic transcripts from Canadian institutions): \$140
- International (any academic transcript(s) from non-Canadian institutions): \$140

All applicants who have previously submitted an Application for Admission to a level of studies (e.g. undergraduate) will also pay the application fee of \$140 for subsequent applications to the same level of studies.

##### b. Registration for Open Studies

Students who wish to enrol in courses without being admitted to a program are called Open Studies students. To register for Open Studies, students must pay a non-refundable \$60 registration fee each term they wish to register in courses. For more information, see **Registration, Open Studies Student (p. 39)**.

##### c. Application for Admission to English for Academic Purposes

Applicants for admission to the English for Academic Purposes (EAP) program at the University of Lethbridge are required to pay a non-refundable application fee of \$125.

##### d. Application fee for Indigenous Student Success Cohort

An application fee for Indigenous Student Success Cohort (ISSC) students is not assessed.

#### 6. NON-REFUNDABLE DEPOSITS

##### a. Confirmation of Admission

All newly admitted and re-admitted domestic undergraduate students are required to pay a non-refundable tuition deposit of \$300 to confirm their admission on or before the expiry date of the *Offer of Admission*. The tuition deposit is applied only to tuition fees incurred by the student.

All newly admitted and readmitted international undergraduate students are required to pay a non-refundable tuition deposit of \$500 to confirm their admission on or before the expiry date of the *Offer of Admission*. The tuition deposit is applied only to tuition fees incurred by the student.

##### b. Open Studies Tuition Deposit

All Open Studies registrants are required to pay a non-refundable tuition deposit of \$80 each term they are eligible to register in courses. The tuition deposit is applied only to tuition fees incurred by the student. For more information, see **Registration, Open Studies Student (p. 39)**.

##### c. English for Academic Purposes Tuition Deposit

All newly admitted and readmitted students in the English for Academic Purposes (EAP) program are required to pay a non-refundable tuition deposit of \$500. The tuition deposit is applied to tuition fees incurred by the student.

## 7. FEES

### a. Compulsory Fees

#### 1. University of Lethbridge fees:

- *Faculty of Fine Arts - Access Fee* - This fee will afford all full and part time, undergrad and graduate students, in the fall and spring terms attending main campus courses in Lethbridge, free admission to all ticketed Fine Arts events (with the exception of certain fund-raising events) on a first come-first serve basis, space permitting. This fee supports the University's commitment to liberal education and provides opportunities for all students to experience a broad range of cultural events held throughout the year.
- *Sport and Recreation Services (SRS) Fee* - Provides access to various facilities and events both on campus and throughout Lethbridge. A portion of this fee supports the Pronghorn Athletic program. This fee applies to students taking main campus courses in the fall and spring terms, at full time and part time rates. Off-campus and summer session students may opt into this service. For more details, please contact Sport and Recreation Services (PE160; 403-329-2706).
- *Student Administrative Fees* - Includes (1) Student Services Fee to provide student services and create resources to help students succeed throughout their academic careers; (2) Student *Copyright Access Fee* to partially offset expenses incurred by the University related to compliance with the Copyright Act; (3) Technology Fee to fund maintenance and replacement of essential technology used in the classroom, as well as annual licensing costs of software used in course delivery. This fee is assessed in all terms, per course.
- *Tuition Fee* - Price charged for enrolment in a course. The tuition fee for auditing a course is half the normal tuition of the course.

#### 2. Students' Union fees:

These fees apply at full time and part time rates, in all terms and for all campuses:

- *Building Fund Fee* - Covers maintenance, renovations and utilities charges.
- *Operations Fund Fee* - Supports the ongoing day-to-day business costs such as administration, memberships and student services offered by the Students' Union.
- *Capital Replacement Fund (CRF) Fee* - Used to purchase and replace major depreciating assets.
- *Health and Dental Plans Fee* - The Health Plan is an extended plan (over and above provincial health care) specifically designed for the students' benefit. The Dental Plan is a basic set of dental insurance benefits. All full-time students who pay Students' Union fees are enrolled in the plans unless proof of alternate coverage is provided to the Students' Union Office before the opt-out deadline dates for new registrants in each term. For more details, contact the Health and Dental Plan Administrator at the Students' Union Office in the Students' Union Building (SU180; 403-329-2039; [www.ulsu.ca](http://www.ulsu.ca)).

#### 3. Pronghorn Athletics Participation Activity Fee:

- This fee is \$500 for all varsity athletes and may be assessed in the fall and spring terms each year. This fee will cover costs such as travel expenses, scholarships, coaches, insurance, equipment rental and athletic membership fees. The University also provides a Leadership Academy for Pronghorn athletes to develop as leaders through excellence in sport, academics and community service.

#### 4. Other fees:

- *Campus Collective Centre Fee* - Supports the operations of the Campus Collective Centre. This is a flat fee assessed in the fall and spring terms, applicable on all campuses.
- *CKXU Fee* - Supports the operations of the student radio station. The fee is applicable in all terms for students with main campus courses.
- *Lethbridge Public Interest Research Group (LPIRG) Fee* - Supports the operations of the Lethbridge Public Interest Research Group. This is a flat fee assessed in the fall and spring terms, for students with main campus courses.
- *Meliorist Fee* - Supports the operations of the student newspaper. Full time and part time rates exist, and the fee is applicable in all terms for students on all campuses.
- *World University Service Canada Fee* - Supports the University of Lethbridge Refugee Program through the World University Service of Canada. This is a flat fee assessed in the fall and spring terms, applicable on all campuses.
- *UPASS Fee* - Supports a citywide transit pass for all part- and full-time undergraduate students enrolled in a Lethbridge course, and is assessed each term. Please contact the Student Union for more information and opt out criteria.



**b. Program-related Fees**

- *Canadian Nursing Association Annual Fee* - Annual dues for students in a nursing program.
- *Faculty of Arts Equipment Rental Fee* - Musical instruments, Art Equipment, New Media Equipment and Digital Audio Arts will have an associated fee to cover ongoing repair and maintenance. If the equipment is not returned, the University will invoice the student for the full amount of the replacement cost of the equipment, less the rental fee.
- *International English for Academic Purposes (EAP) Placement Test Fee* - All incoming EAP students are required to take a Language Placement Test involving additional instructor and administrative labour. A fee of \$35.00 will be assessed for this test.
- *International Exchange Fee* - A non-refundable fee of \$140 per exchange will be assessed upon application for an exchange with another institution.
- *Music Fees* - See **Faculty of Fine Arts, Music Conservatory Fees (p. 192)**, and **Music Ensemble Activity Fees (p. 192)**.
- *Music Instrument Rental Fee* - Additional fee for Education 3800 level course enrolment to defray maintenance costs of musical instruments.
- *Music Studio Differential Fee* - for individualized vocal or instrumental instruction to develop the student's performance capabilities.
- *Practicum Fee* - Additional fee for Education 2500 enrolment to defray placement costs.
- *Specialty Fees* - There may be additional charges for field trip costs and for major specialty items in a particular class such as lab costs, lab manuals, art supplies, workbooks, and substantial photocopied materials that are retained by the student. Instructors will normally be able to estimate these costs for a particular class at the start of the term and students are entitled to a receipt upon payment for such costs. Students requested to pay additional fees to departments for materials and services not described in the above guidelines nor in individual class descriptions should contact the Dean's Office of their Faculty or School concerning the authority for such assessments.
- *Student Practicum Travel Fee* - Additional fee for Professional Semester I or II enrolment to defray placements costs.
- *Tuition Differential Fee* - Additional fee for Science, Education Practicum, and Faculty of Health Sciences courses.

**c. Optional Service Fees**

- *Account History Fee* - \$5 per request.
- *Administrative Processing Fee for Curriculum Detail* - Fee paid by graduates for providing a detailed program curriculum report to third parties - \$180.
- *Ancillary Services - Elevator Service Charge* - This fee will be \$650 and will be a direct cost recovery for mischief or misuse of a residence elevator which requires a service call for repair.
- *Ancillary Services - Smoking/Vaping Progressive Charge* - This fee will be \$100 for first offence, \$250 for second offence, and \$500 for third offence. This charge is to cover damage, cleaning, and fumigation costs should a student smoke or vape inside a residence space.
- *Campus ID Card Fee* - Students' first card is free; \$5 for community users; flat fee set annually plus \$5.00 UPASS replacement fee for replacement cards.
- *Campus Safety - Building Access Card Replacement Fee* - covers the cost of replacement if a card is lost, stolen or physically damaged. The first card is provided to students and staff who require one free of charge. Replacement cards - \$10.00.
- *Dining Plan Fee & all associated food plan fees* - See the Housing Services website at [www.uleth.ca/housing](http://www.uleth.ca/housing).
- *Late Fee* - Fee charged when deadlines are not met - \$100.
- *Library Fines* - Charged fines may be recorded on student accounts.
- *Parking Fee, Forged Permit Charge* - See the Campus Safety website at [www.uleth.ca/campus-safety](http://www.uleth.ca/campus-safety).
- *Residence Fee & all associated housing fees* - See the Housing Services website at [www.uleth.ca/housing](http://www.uleth.ca/housing).
- *Counselling Late Cancellation or No-show Fee* - Students who do not attend a scheduled appointment and did not cancel the appointment one business day in advance will be charged a \$10 fee. This fee will be posted directly to the student's account.
- *Printed Official Transcript Fee* - This fee of \$10.00 per transcript would recover the cost of producing the transcript, including transcript paper, envelope, regular postage and labour.
- *Student Affairs - Visiting Student Authorization Processing Fee* - This fee will be \$100 per course taken through a Visiting Student Authorization (VSA). The fee will be levied on the course at the time the VSA application is approved, not at the time of completion.
- *Student Affairs - Verification of Graduation (Third Party)* - This fee will be \$20 per request by a third party (no students) to confirm that the alumni has received the degree they claim to have.
- *Teaching Centre - Rebooking Fee* - Fee for rebooking exams, to recoup cost of administrative time.

**d. Fee Schedules**

For up-to-date fee schedules, please visit the University of Lethbridge's Financial Services website at [www.uleth.ca/financial-services/fee-schedules](http://www.uleth.ca/financial-services/fee-schedules).

To see how fees are assessed, see the table below.

	Full-time			Part-time			Other				
	On Campus	Off Campus	Calgary Campus	On Campus	Off Campus	Calgary Campus	Exchange - from U of L	Exchange - to U of L	Work Experience /Applied Studies	EAP	Senior Citizen
<b>University of Lethbridge Fees:</b>											
• Admission to University Program	*	*	*	*	*	*	N/A	N/A	N/A	*	*
• Fine Arts Access Fee	Yes	No	No	Yes	No	No	No	Yes	No	Yes	No
• Registration for Open Studies	*	*	*	*	*	*	N/A	N/A	N/A	*	*
• Student Administrative	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
• Sport and Recreation	Yes	No	No	Yes	No	No	No	Yes	No	Yes	No
• Tuition	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No
<b>Students' Union Fees:</b>											
• Building Fund	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
• Operations Fund	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
• Capital Replacement	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
• Health and Dental Plans	Yes(1)	Yes(1)	Yes(1)	No	No	No	Yes(1)	No	Yes(1)	No	No
<b>Other Fees:</b>											
• Campus Collective Centre	Yes(1)	Yes(1)	Yes	Yes(1)	Yes(1)	Yes	No	No	Yes(1)	No	No
• CKXU	Yes	No	No	Yes	No	No	No	No	No	No	No
• Leth. Public Interest Research	Yes(1)	Yes(1)	No	Yes(1)	Yes(1)	No	No	No	Yes(1)	No	No
• Meliorist	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No
• World University Service Canada	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No
• UPASS Fee	Yes(1)	Yes(1)	No	Yes(1)	Yes(1)	No	Yes(1)	Yes(1)	Yes(1)	Yes(1)	No

\*If applicable.

<sup>1</sup>Opt-out option available

**8. IMPORTANT DATES AND FEE DEADLINES**

When a deadline date occurs on a weekend or Statutory or Civic Holiday, the deadline will be the next working day.

	<b>Summer 2022</b>	<b>Fall 2022</b>	<b>Spring 2023</b>
<b>First day of term (classes begin)</b>	Full Term - May 2 Session I - May 2 Session II & II/III - Jul 7 Session III - Aug 3	Sep 7	Jan 4
<b>Add/Drop Date</b> Last day to register in courses	Full Term - May 9 Session I - May 5 Session II & II/III - Jul 7 Session III - Aug 8	Sep 13	Jan 10
<b>Extended Drop Deadline</b> Last day to drop courses before tuition, program, and compulsory fees are non-refundable	Full Term - May 25 Session I - May 9 Session II & II/III - Jul 11 Session III - Aug 8	Sep 26	Jan 25
<b>Health and Dental Opt-out Deadline</b>	N/A	Sep 23	Jan 20
<b>Fee Deadline</b> Last day to pay all fees: <ul style="list-style-type: none"> <li>• Before interest is charged on outstanding balances; and</li> <li>• Before automatic cancellation of registration for non-payment</li> </ul>	Jun 1	Oct 3	Feb 1
<b>Withdrawal Deadline</b> Last day to withdraw from courses and receive a "W" on transcripts	Full Term - Aug 3 Session I - Jun 13 Session II - Jul 22 Session II/III - Aug 15 Session III - Aug 23	Dec 9	Apr 6

# ACADEMIC REGULATIONS

<b>1. INTRODUCTION</b>	<b>52</b>
<b>2. ACADEMIC REGULATIONS</b>	<b>52</b>
a. Grading	52
b. Academic Transcripts	55
c. Repeat of a Course	55
d. Exceeding Course Limits	56
e. Waiver of Prerequisite/Corequisite	56
f. Substitutions	56
g. Academic Standards	56
h. Honours Thesis Designation	57
<b>3. PROGRAM REQUIREMENTS</b>	<b>57</b>
a. Year of the Calendar	57
b. Liberal Education List Requirement	57
c. Residence Requirements and Time Limits	58
<b>4. STUDENT POLICIES</b>	<b>62</b>
a. Assessment of Student Learning Policy and Procedures for Undergraduate Students	62
b. Final Grade Appeal Policy	62
c. Student Discipline Policy - Academic Offences	63
d. Student Discipline Policy - Non-Academic Offences	63
e. Authority to Rescind Registration Privileges/ Prohibit Access to University Property	63
f. Appeal of Application of Policy Other Than Grade or Student Discipline	63
g. Academic Accommodations for Students with Disabilities	63
h. Artwork Placement Policy	63
i. Acceptable Use of Computing, Information and Technology Resources Policy	63
j. Confidentiality of Student Records Policy	63
k. Copyright	63
l. Library Access Policy	64
m. Library Code of Conduct	64
n. Managing Unacceptable Behaviour by External Users of University Facilities	64
o. Policy Against Hazing	64
p. Revoking Degrees	64
q. Behavioural Intervention Policy	64
r. Student Housing Policy	64
s. International Travel Policy	64
t. Recording of Lectures	64
u. Other Policies	64

## I. INTRODUCTION

All students are bound by the academic regulations contained in the most current Calendar, regardless of the Calendar they are following for program requirements. A student may obtain further information and advice about academic regulations from the Faculty or School in which that student is registered. It is the responsibility of each student to be familiar with the Academic Regulations as outlined in this section and program-specific sections of the Calendar, as well as University student policies referenced in **Student Policies, p. 62** and found online ([www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy)).

## 2. ACADEMIC REGULATIONS

### a. Grading

An instructor bears full responsibility for evaluating the academic performance of students, see **Assessment of Student Learning Policy and Procedures for Undergraduate Courses** ([www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy)).

An instructor must indicate at the beginning of each course, in writing, the detailed manner by which work will be evaluated and the final grades derived and, **upon request**, communicate to students an estimation of their levels of performance by the end of the eighth week of the term. An instructor may prescribe a variety of forms of evaluation, such as recitations and papers, mid-term examinations and a final examination.

Final grades are determined in accordance with the grading system described in this Calendar. All final grades for courses and Independent Studies are submitted by the date set in the Academic Schedule. Except when a Course Incomplete has been approved by both the instructor and the Dean, there is no provision for the late submission, revision or evaluation of students' work after the final grade submission deadline. There is no provision for the late submission of final grades. Grade changes may be submitted by the instructor up to two months following the grade submission deadline (e.g., fall term grade submission deadline in December - grade change permitted until February 28 of the following term).

### I. Grading System

Effective May 1, 2002, the University of Lethbridge and other Alberta universities adopted a common 4-point grading system. The common grading system closely resembles the grading system that became effective on September 1, 1988, when pluses and minuses were introduced into the original University of Lethbridge grading system. All three University of Lethbridge systems are described in the table below.

Under all three systems, the overall academic performance of a student is expressed as a Grade Point Average (GPA). For students whose grades are recorded under two or three systems, the GPA is determined in the same way. No attempt will be made at differential weighting of the three systems.

The GPA achieved by a student is determined by multiplying the grade points assigned to each grade by the weighting factor for the course. The total of all course grade points thus calculated is then divided by the total of the weighting factors for all courses.

### University of Lethbridge Grading Systems

Grading System effective May 1, 2002			Grading System prior to May 1, 2002			Grading System prior to Sept. 1, 1988		
		Grade Points			Grade Points			Grade Points
A+		4.00	A+		4.00	A	Excellent	4
A	Excellent	4.00	A	Excellent	4.00			
A-		3.70	A-		3.70			
B+		3.30	B+		3.30	B	Superior	3
B	Good	3.00	B	Good	3.00			
B-		2.70	B-		2.70			
C+		2.30	C+		2.30			
C	Satisfactory	2.00	C	Satisfactory	2.00	C	Satisfactory	2
C-		1.70	C-		1.70			
D+	Poor	1.30	D+		1.30			
D	Minimal Pass	1.00	D	Poor	1.00	D	Poor	1
			D-		0.70			
F	Failure	0	F	Failing	0	F	Failing	0

**Note:** WF - Withdrawal Fail effective May 1, 1992 to April 30, 2010

## 2. Grade Point Average Calculations

The current GPA, often referred to as the 'term GPA', is calculated on all graded courses completed in a given term and appears on both official and unofficial academic transcripts.

The total institution GPA, often referred to as the 'cumulative GPA', is calculated on all graded courses and appears on all academic transcripts by the level of a student's program (undergraduate, master's, or doctoral).

### Other types of GPA calculations:

Administrative units at the University may calculate a variety of averages in order to determine eligibility for scholarships and awards, academic standing, admission, graduation, etc. When making their calculations, units may include grades for courses transferred from another institution and grades hidden by the Credit/Non-Credit designation. In addition, they may choose to exclude certain grades on both University of Lethbridge and transfer courses from the GPA calculations.

Additional GPA calculations include academic standing GPA, admission GPA, awards GPA, Faculty or School GPA, major GPA, prerequisite GPA, program GPA and residence GPA. Note that these calculations are defined by the unit which uses the GPA.

There are certain courses which are not included in the calculation of the current or cumulative GPA. These include courses transferred from another institution; the lowest graded attempt(s) of a repeated course; and courses in which there are non-grade designations such as Credit/Non-Credit.

In the case of courses designated as Pass/Fail, a 'P' or 'Pass' is not included in the calculation of the current or cumulative GPA, but an 'F' or 'Fail' is included in the GPA calculation.

Example:

	Grade		Grade Points	Weighting Factor	Total Grade Points
Sociology 1000	A	=	4.00	x 3.00	= 12.00
English 1900	B	=	3.00	x 3.00	= 9.00
Mathematics 1560	C	=	2.00	x 3.00	= 6.00
Physical Activity 2130	A	=	4.00	x 1.50	= 6.00
Physics 1000	D	=	1.00	x 3.00	= 3.00
				13.50	36.00
Total grade points	= GPA		36.00	=	2.67 GPA
Total weighting factor			13.50		

## 3. Non-Grade Designations:

No grade points are assigned for the following designations:

### AI - Administrative Incomplete

The designation of 'AI' is recorded at the final grade submission deadline for a given term by the Registrar, if the instructor has not submitted a final grade by the deadline. The 'AI' is replaced by the letter grade as soon as it is received. The 'AI' designation is temporary, must be replaced by a grade and may not be used in lieu of an Incomplete designation.

### AU - Audit

The AU designation is awarded when a student has been granted permission by an instructor to audit a course. The course appears on the academic transcript as 'AU' (**Registration, Audit a Course, p. 39**).

### I - Incomplete

The designation of 'I' is awarded only in case of illness or other extenuating circumstances beyond the control of the student, which make it impossible to complete the required work by the close of a term. The 'I' designation is awarded only on application to and approval of both the instructor and the appropriate Dean and such application is not reviewed until the last two weeks of classes. When the 'I' is approved, an appropriate deadline is determined for completion of outstanding work. A student who does not complete outstanding work by the assigned deadline will normally receive an 'F' in the course.

The 'I' designation may be converted by the instructor to a letter designation within a maximum of one year; if not so converted, it becomes an 'F' except where circumstances continue to prevent the completion of the course, in which case the 'I' designation remains on the academic transcript.

An 'I' designation assigned in an Education Field Experience course has a different interpretation. Details are available from the Assistant Dean, Student Program Services, Faculty of Education.

The 'I' designation is not available in Nursing Practice or Public Health practicum courses. Students enrolled in these courses should see an academic advisor in the Faculty of Health Sciences for details.

### L - Tabula Rasa - Retain Credit

The designation of 'L' prefaces a course grade if credit was retained for that course following the granting of *Tabula Rasa* at the point of readmission. Refer to **Readmission after Required Withdrawal (p. 28)** for information regarding the granting of *Tabula Rasa*.

**T - Tabula Rasa - No Credit**

The designation of 'T' prefaces a course grade if credit was not retained for that course following the granting of *Tabula Rasa* at the point of readmission. Refer to **Readmission after Required Withdrawal (p. 28)** for information regarding the granting of *Tabula Rasa*.

**W - Withdrawal**

Where a student withdraws from a course at any time after the Extended Drop deadline up to and including the last day of classes, a designation of 'W' will be awarded only upon withdrawal submission on the Bridge. A 'W' designation is not factored into the term or cumulative GPA calculations. Students are responsible for ensuring the submission is made on the Bridge by the relevant deadline. Refer to the **Academic Schedule (p. 15)** for the last day to withdraw.

**WC - Withdrawal with Cause**

The designation 'WC' is recorded only in case of serious illness or other extenuating circumstances beyond the control of the student, which make continuation in a course impossible and where an 'Incomplete' designation is not in order. For admitted students, the 'WC' is recorded only on application to the Faculty or School advising office. For Open Studies students, the 'WC' is recorded upon application to Student Enrolment and Registrar Services.

Prior to readmission, students who are granted a complete 'Withdrawal with Cause' may be requested to provide evidence that the conditions which led to the complete withdrawal (WC) have been identified and addressed. Coordination among units, including academic advising, Counselling Services and Admissions will take place.

**X - Continuing**

Used for courses which may extend beyond one term. Eligible courses are designated by the Faculty or School offering the course. Signifies that a grade will be awarded at the conclusion of the course and will replace the 'X' on the student's academic transcript.

**X - Permanent**

Used for placeholder courses to indicate that the student is active in the program but is not taking courses in a given term or is taking credit courses at another institution, under the appropriate authorization.

Also used in an Undergraduate Thesis course (4995) when a student elects to complete the course over two terms. This grade designation is assigned to the first term.

**Cr/NC - Credit/Non-Credit**

A student may elect to designate some courses as Credit/Non-Credit. This alternative is designed to encourage students to expand their academic interests by taking courses outside their field of major interest. Credit/Non-Credit is not available to Open Studies students.

For completion of course requirements with a grade of 'C' or higher, the grade earned appears on the academic transcript automatically. If a grade between 'C-' and 'D' (inclusive) is earned, a 'Cr' appears on the academic transcript. If a grade of 'F' is earned, an 'NC' appears on the academic transcript.

Students may designate courses as Credit/Non-Credit according to the following limits:

All single and combined degrees programs:	
• No transfer credit	4
• 1.5 - 30.0 transfer credit hour equivalents	4
• 31.5 - 60.0 transfer credit hour equivalents	3
All post-diploma programs, with or without transfer credit	2
All post-diploma combined degrees programs, with or without transfer credit	3
All certificate programs and the Dhillon School of Business Post-Bachelor Certificates with or without transfer credit	1
All second degree programs, with or without transfer credit	2

A student is further limited in the number of Credit/Non-Credit designations made per term. In the fall and spring terms, a student may elect Credit/Non-Credit in a maximum of two courses. In summer sessions, a student may elect Credit/Non-Credit in a maximum of one course per session. Once a course is designated Credit/Non-Credit, it counts toward the maximum, irrespective of the outcome.

The Credit/Non-Credit alternative may not be elected in courses constituting the student's major, specialization or minor, required courses in Education and specifically-required, non-Dhillon School of Business courses. Education students may elect a maximum of three Education courses as Credit/Non-Credit. For the purpose of this regulation, Dhillon School of Business courses are regarded as the major for the B.Mgt. degree, Nursing courses are regarded as the major for the B.N. degree, Public Health and Health Sciences courses are regarded as the major for the B.H.Sc. (Public Health major) program, and Addictions Counselling and Health Sciences courses are regarded as the major for the B.H.Sc. (Addictions Counselling major) program.

No courses carrying a 'Credit' designation may be used to meet requirements where the Credit/Non-Credit designation is specifically prohibited in the Calendar. Faculties/Schools may allow substitutions for designated courses at their discretion, but must consider the records of such students as deficient.

**Note:** Other post-secondary institutions may not recognize courses where grades other than 'A+' to 'F' are assigned (e.g. 'CR', 'P'). Students in pre-professional and other transfer programs, and students planning to apply to professional schools are advised to contact the receiving institution for more information.

A student may not use a Credit/Non-Credit designation to replace a grade earned previously.

### **P - Pass/Fail Courses**

Certain courses are specified as Pass/Fail in the course descriptions. For such courses, students are awarded either the designation 'P' or the grade 'F'.

The designation 'P' indicates satisfactory completion of the objectives of a Pass/Fail course. When a student is awarded the designation 'P', the course is not included in computation of the GPA; when the student is awarded 'F', the course is included in computation of the GPA.

**Note:** Other post-secondary institutions may not recognize courses where grades other than 'A+' to 'F' are assigned (e.g. 'CR', 'P'). Students in pre-professional and other transfer programs, and students planning to apply to professional schools are advised to contact the receiving institution for more information.

## **b. Academic Transcripts**

An academic transcript is the official, permanent record of a student's enrolment activity at the University of Lethbridge, including the terms in which registration took place and the associated grades or designations that were assigned. The academic transcript also includes the student's current or most recent program degree(s), major(s), minor(s), concentration(s), and specialization(s), as appropriate.

### **1. Official and Unofficial Academic Transcripts**

Official academic transcripts bear the seal and signature of the University of Lethbridge Registrar. An official academic transcript includes, for each student at each program level (undergraduate, master's and doctoral), all University of Lethbridge courses in progress, courses attempted (successfully and unsuccessfully), courses repeated, courses withdrawn, credits earned, GPA, and academic standing by term until the day the academic transcript is produced. A summary of academic transfer credit is listed by institution and term granted. The student's cumulative GPA is also included on the academic transcript. Upon completion of program requirements and the conferral of degrees, additional notations are included on the official academic transcript in accordance with University policies (see **Graduation, Academic Transcripts, p. 66**).

An unofficial academic transcript does not bear the Registrar's seal or signature. This type of academic transcript is not the official record of the University of Lethbridge; however, it is accessible to students online through the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)) to allow students to monitor their own progress as they navigate their program(s).

### **2. Academic Transcript Requests**

Official academic transcripts are confidential and will only be issued upon request by the student. A student may request a paper copy, electronic copy, or both of their transcript. Electronic copies are verified and official, issued to the student from the University of Lethbridge to the student's MyCreds account. Learn more about MyCreds at [www.ulethbridge.ca/ross/mycreds](http://www.ulethbridge.ca/ross/mycreds). Students can request transcripts on the Bridge or in-person at Student Enrolment and Registrar Services. When requests are made in person, appropriate documentation such as a student ID card or driver's licence is required.

Third-party requests must be authorized by the student. For more details on obtaining official academic transcripts, see [www.ulethbridge.ca/ross/transcripts](http://www.ulethbridge.ca/ross/transcripts). Requesting separate official academic transcripts for each degree level completed at the University of Lethbridge is not possible.

Official academic transcript requests, complete with date of issue and recipient, are maintained indefinitely. Students will be notified promptly if their academic transcripts have not been issued because of academic holds, inability to authenticate the source of the request, or for other reasons which may apply.

### **3. Withholding Academic Transcripts**

Official and unofficial academic transcripts will not be issued if the student has any outstanding financial obligations to the University.

## **c. Repeat of a Course**

A student may repeat a course previously taken in an attempt to: improve the course grade, improve the GPA and/or meet graduation requirements.

1. A grade may be improved by completing either the course or its equivalent.
  - Students wanting to improve their grade in a Series or Topics course must repeat the section with the identical title.
  - Courses that are equivalent are denoted with an 'Equivalent' course element in the course description and include courses that have been renamed or renumbered, and Topics or Series courses that have been regularized.
2. If a student repeats a course, the grade for each attempt is recorded on the academic transcript.
3. After a course is repeated, the grade and credit hours of the attempt with the highest grade will be used to calculate the GPA.
4. A student may not use a Credit/Non-Credit designation to replace a previously earned grade.



**d. Exceeding Course Limits**

In the case where a student exceeds any legislated course limit(s) and/or the credit hours required in the student's program, those credits will be considered extra-to-program (see **Glossary, Extra-to-Program Course Credit, p. 537**). The extra-to-program courses may be University of Lethbridge courses taken outside a student's program requirements or eligible electives, one of a substantially similar pair, or granted institutional transferable course credit that does not fulfill program requirements. These courses will be counted toward applicable GPAs and are maintained on the students record. Students should be aware of legislated course limits, including the maximum number of Independent Study or Introductory courses allowed in a program.

**1. Substantially Similar Course Limits**

Substantially similar courses contain a high percentage of similar course content and are denoted with a "Substantially Similar" course element in the course description. Students who complete two substantially similar courses will receive credit for both courses. However, the number of credit hours of the substantially similar course will be considered extra-to-program. For example, if a student in a 40-course program (120.0 credit hours) takes two 3.0-credit-hour courses that are substantially similar, one of the courses would be considered extra-to-program. This substantially similar course will be counted toward applicable GPAs and will remain on the student's record, but it will not fulfill program requirements for graduation.

Some courses may be applicable to more than one limit in a program. For example, History 1000 and History 1200 are substantially similar and both may count toward the 1000-level course limit in a program. The course deemed substantially similar would be extra-to-program and excluded from the 1000-level course limit.

**2. Limitation on the Impact of a Single Course**

If a single course causes the student to exceed more than one limit, the student's program will be increased by one course (3.0 credit hours) only. For example, a student who completes History 1000 and History 1200 (which are substantially similar) would have his/her program increased by one course (3.0 credit hours). If completion of History 1200 also causes the introductory course limit to be exceeded by one course (3.0 credit hours), the program would not be increased further.

**e. Waiver of Prerequisite/Corequisite**

Students may possess some educational experience that provides much of the background usually acquired in a prerequisite or corequisite to a particular course. In such cases, the student may seek the permission of the Faculty or School to waive the prerequisite(s) and/or corequisite(s) for that course.

Application for a prerequisite/corequisite waiver must be made through the department offering the course. Once written permission is received from the Faculty or School, a student may register in a course without having completed the prerequisite(s) and/or corequisite(s). Students do not receive credit for the waived prerequisite(s) or corequisite(s).

If a prerequisite or corequisite course is specifically required in a program or major, it must be registered and completed at some point unless a substitution has been approved by the Dean. In the case of courses required for the major, substitutions must be recommended to the Dean by the department/academic unit.

**f. Substitutions**

A substitution for a required course in a program or major is at the sole discretion of the Faculty or School and is only granted in exceptional situations. Students should seek advice and information about substitutions from an academic advisor. Course substitutions must be approved by the Dean and are recorded on the student's record.

**g. Academic Standards****1. Undergraduate Student in Good Standing**

To be in good standing, an undergraduate student must maintain the following minimum cumulative GPA:

Number of completed courses (includes transfer courses)	GPA (U of L)
1-10	1.70
11-20	1.85
21-40	2.00

Students should be aware that some Faculties/Schools require higher levels of performance in certain courses or terms. Students are referred to detailed statements by Faculties/Schools in relevant Parts of this Calendar.

**2. Probationary Student**

If the cumulative GPA falls below the required levels, the student is placed on academic probation and is subject to program restrictions.

In some cases a student may be admitted as probationary because a previous academic record is either deficient in some respect, below the standard ordinarily required or difficult to assess.

**3. Required Withdrawal from the University**

Students may be required to withdraw on two academic grounds: (1) academic indices or (2) consecutive terms on probation. Students shall be required to withdraw for academic reasons from University of Lethbridge programs only following the spring term.

## a. Required Withdrawal - Academic Indices

Students who have completed six courses and whose cumulative GPA, at the end of the spring term, falls below the following indices are required to withdraw from the University:

Number of completed courses (includes transfer courses)	GPA (U of L)
6-10	1.50
11-20	1.70
21-30	1.85
31-40	2.00

## b. Required Withdrawal - Terms on Probation

Students who, at the end of the spring term, have remained on academic probation for two or more consecutive terms, are required to withdraw from the University.

Students should be aware that regulations pertaining to required withdrawal may vary depending on the Faculty or School. Students are referred to their respective Faculty or School for details on these regulations.

## 4. Required Withdrawal from Program/Major

Where demand for access exceeds program/major capacity, Faculties/Schools reserve the right to set academic standards for continuation in a specific program or major. A student who is not eligible to continue in a program/major, but whose academic performance does not warrant required withdrawal from the Faculty or School, or the University, is guaranteed a seat in a related program/major for which the student is qualified and which is offered by that Faculty or School.

## h. Honours Thesis Designation

Undergraduate Thesis courses are designated by the same number in all disciplines (4995), carry the subject code for the discipline (e.g., PHIL), and the title "Undergraduate Thesis."

Undergraduate Thesis courses are 6.0 credit hours, and tuition fees are assessed on the regular fee basis.

Prerequisites include: (1) fourth-year standing (a minimum of 90.0 credit hours) and (2) a cumulative GPA specified by the Faculty or School.

Any discipline-specific requirements beyond those required for the major are included as prerequisites for the Undergraduate Thesis courses and appear in this Calendar under the Undergraduate Thesis course listing (see **Course Catalogue, p. 343**).

The grading mode is standard letter grading. Credit/Non-credit is not available.

A minimum grade approved by the Faculty or School Council must be achieved in order to attain the Honours Thesis designation. A student who achieves a grade of 'D' or higher, but not the designated minimum grade in this Undergraduate Thesis course, or who fails to meet any other requirement for the Honours Thesis designation, will retain credit for the equivalent of two courses (6.0 credit hours) under the course title of 'Undergraduate Thesis' but will not be eligible for the 'Honours Thesis' designation.

For information regarding the Honours Thesis designation and Undergraduate Thesis courses for the B.A., B.Sc., and B.A.Sc. degrees, see **Faculty of Arts and Science, Undergraduate Thesis Courses ('Honours Thesis' Designation) (p. 92)**.

For information regarding the Honours Thesis designation and Undergraduate Thesis courses for the B.F.A. - Art degree, see **Faculty of Fine Arts, Honours Thesis' Designation (p. 177)**, and for the B.F.A. - New Media degree, see **Faculty of Fine Arts, Honours Thesis' Designation (p. 184)**.

For information regarding the Honours Thesis designation and Undergraduate Thesis courses for the B.Mgt. degree, see **Dhillion School of Business, Undergraduate Thesis Course (Honours Thesis Designation) (p. 212)**.

## 3. PROGRAM REQUIREMENTS

## a. Year of the Calendar

Students are governed by the **program requirements of the Calendar in effect at the time of the most recent admission**. However, students are governed by the current Calendar in all other respects (e.g., academic regulations, order of registration, fees, course prerequisites, etc.) regardless of the year of admission or readmission.

When a student's registration at the University is interrupted and the student subsequently is readmitted to a University program, the student shall be governed by the Calendar in effect at the time of readmission, unless granted special permission.

A continuing student may opt to be governed by any Calendar from the one in effect at the point of most recent admission to the University, to the current Calendar. **If a student opts for a particular Calendar, all program requirements of the chosen Calendar shall apply, while the current Calendar shall apply in all other respects.**

Any student wishing to change the Year of the Calendar must apply to their Faculty or School Academic Advising or Student Program Services office.

## b. Liberal Education List Requirement

In keeping with the Liberal Education focus of the University, all students in an undergraduate degree program must complete the Liberal Education List Requirement (Lib Ed List Requirement) (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**c. Residence Requirements and Time Limits**

Please note the following for the last three columns of the table:

**Column A: Residence Requirement**

A student who is a candidate for an undergraduate credential must satisfy the minimum residence requirement through successful completion of University of Lethbridge courses. A single course, as listed in this table, is the equivalent of 3.0 credit hours.

For some University of Lethbridge programs, students are required to take courses at another institution under Visiting Student Authorization. Such courses taken under Visiting Student Authorization will be counted as University of Lethbridge courses for residence requirement purposes.

**Column B: Time Limit for Retention of Individual Course Credit**

Many courses have a defined 'shelf life.' A course may be used to meet program requirements for a specific number of years. After that point, credit for that course is not retained.

**Column C: Time Limit for Program Completion**

A student who is a candidate for a credential must satisfy all program requirements within the time limit established by the Faculty or School administering that program.

Program(s)	Number of Courses in Program	A. Residence Requirement (Minimum number of terms and/or University of Lethbridge courses required and, if applicable, when they must be completed in the program.)	B. Time Limit for Retention of Individual Course Credit (University of Lethbridge and/or transfer credit.)	C. Time Limit for Program Completion
<b>Faculty of Arts and Science</b>				
Certificate in Arts and Science	10	7 courses (21.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, and School of Liberal Education.	No limit.	No limit.
B.A., B.Sc., BASc.	40	20 courses, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, and School of Liberal Education at the 3000/4000 level.	No limit.	No limit.
B.A., B.Sc., BASc. (After an approved degree)	Minimum of 20	20 courses, taken after admission to the second degree program, including at least 10 courses (30.0 credit hours) at the 3000/4000 level.	No limit.	No limit.
Post-Diploma • B.A., B.Sc. - Agricultural Studies major • B.Sc. - Computer Science major • B.Sc. - Environmental Science major • B.Sc. - Geography with a Concentration in Geographical Information Science major	20	20 courses. (No transfer credit.)	No limit.	No limit.
<b>Faculty of Education</b>				
B.Ed. (After an approved degree)	20	20 courses	No limit.	No limit.
B.Ed. (After Teacher Training)	Varies	Set on an individual basis.	No limit.	No limit.
Diploma in Education	8	5 courses	No limit.	5 years after admission. (Extension possible upon application.)

Program(s)	Number of Courses in Program	A. Residence Requirement (Minimum number of terms and/or University of Lethbridge courses required and, if applicable, when they must be completed in the program.)	B. Time Limit for Retention of Individual Course Credit (University of Lethbridge and/or transfer credit.)	C. Time Limit for Program Completion
<b>Faculty of Fine Arts</b>				
B.F.A. - Art	40	20 courses, including a minimum of 12 offered by the Department of Art of which at least 7 must be at the 3000/4000 level.	No limit.	No limit.
B.F.A. - Dramatic Arts	40	20 courses, including a minimum of 12 in Drama of which at least 7 must be at the 3000/4000 level.	No limit.	No limit.
B.F.A. - Indigenous Art	40	20 courses, including a minimum of 12 offered by the Department of Art of which at least 7 must be at the 3000/4000 level and at least four courses offered by the Department of Indigenous Studies.	No limit.	No limit.
B.F.A. - Multidisciplinary	40	20 courses, including a minimum of 12 in the Faculty of Fine Arts and the last 10 taken for credit toward the degree.	No limit.	No limit.
B.F.A. - New Media	40	20 courses, including a minimum of 12 offered by the Department of New Media of which at least 7 must be at the 3000/4000 level.	No limit.	No limit.
B.Mus.	40	20 courses, including a minimum of 12 in Music and/or Music Studio of which at least 7 must be at the 3000/4000 level.	No limit.	No limit.
Second Degree (After an approved degree) • B.F.A. - Art • B.F.A. - Dramatic Arts • B.F.A. - Indigenous Art • B.F.A. - Multidisciplinary • B.F.A. - New Media • B.Mus.	Minimum of 20	20 courses, taken after admission to the second degree program.	No limit.	No limit.
Post-Diploma (After a two-year diploma) • B.F.A. - Art • B.F.A. - Dramatic Arts • B.Mus.	20	20 courses. (No transfer credit.)	No limit.	No limit.
Post-Diploma (After a three-year diploma) • B.F.A. - Art • B.F.A. - Dramatic Arts • B.Mus.	15	15 courses. (No transfer credit.)	No limit.	No limit.
Post-Diploma (After a two- or three-year diploma) B.F.A. - Multidisciplinary	20	20 courses. (No transfer credit.)	No limit.	No limit.

Program(s)	Number of Courses in Program	A. Residence Requirement (Minimum number of terms and/or University of Lethbridge courses required and, if applicable, when they must be completed in the program.)	B. Time Limit for Retention of Individual Course Credit (University of Lethbridge and/or transfer credit.)	C. Time Limit for Program Completion
<b>Faculty of Health Sciences</b>				
B.H.Sc.	40	20 courses, including a minimum of 10 from the Faculty of Health Sciences.	No limit.	Within 7 years of completion of the first required course offered by the Faculty of Health Sciences.
B.N.	41.3 (124.0 cr. hrs.)	20 courses, including a minimum of 12 in Nursing and Health Sciences (see <b>Faculty of Health Sciences, Degree Programs, p. 200</b> ).	7 years for Nursing courses; 10 years for Human Anatomy and Human Physiology courses (see <b>Faculty of Health Sciences, Degree Programs, p. 200</b> ).	7 years after completion of the first Nursing course used for the degree.
B.N. - After Degree	27 (81.0 cr. hrs.)	19.3 courses (58.0 cr. hrs.).	6 years for Nursing courses.	6 years after completion of the first Nursing course used for the degree
B.T.R.	20	20 courses.	No limit.	6 years after completion of the first Therapeutic Recreation course used for the degree.
Post-Diploma B.H.Sc.	20	20 courses.	No limit.	6 years after completion of the first course offered by the Faculty of Health Sciences used for the degree.
<b>Dhillon School of Business</b>				
B.Mgt.	40	20 courses, including 10 3000/4000-level Dhillon School of Business courses. <sup>3,4,6,7</sup>	See Note 2.	10 years after admission to the Dhillon School of Business.
B.Mgt. (As a second degree)	15-25	15 courses, including at least 10 3000/4000 level Dhillon School of Business courses. <sup>3,4,6,7</sup>	See Note 2.	10 years after admission to the Dhillon School of Business.
Post-Diploma B.Mgt. <sup>1</sup>	20-25	20 courses. <sup>3,4,6,7</sup>	No transfer credit for admission purposes. <sup>2</sup>	10 years after admission to the Dhillon School of Business.
Finance Diploma	20	10 courses towards the Finance Diploma taken at the University of Lethbridge. <sup>7</sup>	See Note 2.	10 years after admission to the Dhillon School of Business.
Management Certificate	10	5 courses towards a Dhillon School of Business Certificate. <sup>3,4</sup>	See Note 2.	5 years after admission to the Dhillon School of Business.
Post-Bachelor Certificate in Accounting Fundamentals (formerly Post-Bachelor Certificate in Accounting)	10	5 courses towards the Post-Bachelor Certificate in Accounting Fundamentals taken at the University of Lethbridge.	See Note 2.	5 years after admission to the Dhillon School of Business.
Post-Bachelor Certificate in Advanced Accounting)	6	5 courses toward the Post-Bachelor Certificate in Advanced Accounting taken at the University of Lethbridge. <sup>6</sup>	See Note 2.	5 years after admission to the Dhillon School of Business.
Combined Post-Bachelor Certificate in Accounting	16	5 courses toward the Post-Bachelor Certificate in Accounting Fundamentals and 5 courses toward the Post-Bachelor Certificate in Accounting.	See Note 2.	5 years after admission to the Dhillon School of Business.

Program(s)	Number of Courses in Program	A. Residence Requirement (Minimum number of terms and/or University of Lethbridge courses required and, if applicable, when they must be completed in the program.)	B. Time Limit for Retention of Individual Course Credit (University of Lethbridge and/or transfer credit.)	C. Time Limit for Program Completion
<b>Combined Degrees</b>				
B.A./B.Ed., B.Sc./B.Ed.	50	30 courses, including 15 courses from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, and School of Liberal Education and 15 courses in Education.	No limit.	No limit.
B.F.A. - Art/B.Ed.	50	30 courses, including 15 in Fine Arts or Arts and Science (7 of which must be Art, Art History, and/or Museum Studies) and 15 in Education.	No limit.	No limit.
B.F.A. - Dramatic Arts/B.Ed.	50	30 courses, including 15 in Fine Arts or Arts and Science (7 of which must be Drama) and 15 in Education.	No limit.	No limit.
B.F.A. - New Media/B.Ed.	50	30 courses, including 15 in Fine Arts or Arts and Science (7 of which must be New Media) and 15 in Education.	No limit.	No limit.
B.Mus./B.Ed.	52	32 courses, including 17 in Fine Arts or Arts and Science (9 of which must be Music and/or Music Studio) and 15 in Education.	No limit.	No limit.
B.Mgt./B.Ed.	50	30 courses, including 10 from the Dhillon School of Business (7 of which must be at the 3000/4000 level) and 15 in Education.	No limit for Education courses. <sup>2</sup>	10 years after admission to the Dhillon School of Business.
B.A./B.Mgt., B.Sc./B.Mgt.	50	30 courses, including 20 courses from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, and School of Liberal Education and 10 courses from the Dhillon School of Business at the 3000/4000 level. <sup>3,5,6,7</sup>	No limit for Arts and Science courses. <sup>2</sup>	10 years after admission to the Dhillon School of Business.
B.F.A. - New Media/B.Mgt.	50	30 courses, including 7 New Media courses and 10 Dhillon School of Business courses at the 3000/4000 level. <sup>3</sup>	No limit for New Media courses. <sup>2</sup>	Faculty of Fine Arts - No limit. Dhillon School of Business - 10 years after admission to the Dhillon School of Business.
B.H.Sc./B.Mgt.	50	30 courses, including a minimum of 15 Health Sciences courses and 10 Dhillon School of Business courses at the 3000/4000 level. <sup>3</sup>	7 years for Public Health courses. <sup>2</sup>	Faculty of Health Sciences - 7 years after completion of the first Public Health course used for the degree. Dhillon School of Business - 10 years after admission to the Dhillon School of Business.

Program(s)	Number of Courses in Program	A. Residence Requirement (Minimum number of terms and/or University of Lethbridge courses required and, if applicable, when they must be completed in the program.)	B. Time Limit for Retention of Individual Course Credit (University of Lethbridge and/or transfer credit.)	C. Time Limit for Program Completion
Post-Diploma • B.F.A. - Art/B.Ed. • B.F.A. - Dramatic Arts/B.Ed. (After a two- or three-year diploma) • B.Mus./B.Ed. (After a two- or three-year diploma)	35	35 courses, including a minimum of 8 in the discipline (Art, Art History, Museum Studies, Drama, or Music) and 20 courses in Education. (No transfer credit.)	No limit.	No limit.
Post-Diploma - B.Mgt./B.Ed. <sup>1</sup>	35	30 courses, including 8 from the Dhillon School of Business and 15 in Education.	No limit for Education courses. <sup>2</sup>	10 years after admission to the Dhillon School of Business.

<sup>1</sup> There are restrictions on the diploma used as the basis for admission to the Post-Diploma B.Mgt. program. Diplomas more than eight years old will be considered for the 25-course Post-Diploma Bachelor of Management program.

<sup>2</sup> Courses transferring to a Dhillon School of Business program must have been completed at a recognized post-secondary institution not more than eight years prior to admission to the Dhillon School of Business. Once admitted, credit is retained until completion of the program (up to a maximum of 10 years after admission).

<sup>3</sup> Students who study at an international institution under Exchange Student authorization will count the exchange courses toward meeting the minimum residence requirement.

<sup>4</sup> Exceptions apply to certain majors for the ten 3000/4000-level Dhillon School of Business courses required for residency. Students in the following majors may use courses in the major towards this requirement: Computer Science majors can use 3000/4000-level Computer Science courses in addition to 3000/4000-level Dhillon School of Business courses; Economics majors can use 3000/4000-level Economics courses in addition to 3000/4000-level Dhillon School of Business courses; Indigenous Governance and Business Management majors can use 3000/4000-level Indigenous Studies courses in addition to 3000/4000-level Dhillon School of Business courses; and Political Science majors can use 3000/4000-level Political Science courses in addition to 3000/4000-level Dhillon School of Business courses.

<sup>5</sup> Exceptions apply to certain majors for the ten 3000/4000-level Dhillon School of Business courses required for residency. Students in the following majors may use courses in the major towards this requirement: Economics majors can use 3000/4000-level Economics courses in addition to 3000/4000-level Dhillon School of Business courses; Indigenous Governance and Business Management majors can use 3000/4000-level Indigenous Studies courses in addition to 3000/4000-level Dhillon School of Business courses; and Political Science majors can use 3000/4000-level Political Science courses in addition to 3000/4000-level Dhillon School of Business courses.

<sup>6</sup> In addition to meeting the residence requirement for their program, students in the Accounting major must complete five of the following courses at the University of Lethbridge: Accounting 3100, 3101, 3130, 3131, 3151, 3160, 3171, 3180, 3190, 4110, 4125, 4130, 4151, 4160.

<sup>7</sup> Finance majors must complete all courses from the following list, and which are part of their major, at the University of Lethbridge: Finance 3412, 3441, 3460, 3470, 3480, 4421, 4430, 4451.

#### 4. STUDENT POLICIES

Prior to the 2019/2020 Academic Calendar and Course Catalogue, policies a. - f. (below) were published in Academic Regulations and are now referenced below and available online. Students are bound by the current versions of these policies which are located online.

The University of Lethbridge provides many policies to support student learning and the student experience. A comprehensive listing of policies - academic and non-academic - can be found online. Students are bound by all the policies that are currently in effect, and the official versions are contained on the policy website ([www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy)).

##### a. Assessment of Student Learning Policy and Procedures for Undergraduate Students

This policy specifies the components required in course outlines, identifies expectations of students, and provides procedures for the conduct and scheduling of formal learning assessments, reporting grades, and handling student work once assessment is complete.

The full policy is available online at [www.ulethbridge.ca/policy/resources/assessment-student-learning-policy-and-procedures-undergraduate-student](http://www.ulethbridge.ca/policy/resources/assessment-student-learning-policy-and-procedures-undergraduate-student).

##### b. Final Grade Appeal Policy

Grade appeals deal with claims that a student's course grade has been improperly determined. Student grade appeals will be directed to the Dean of the Faculty or School in which the course is taught. Students shall first discuss the grade and how it was determined with the instructor.

The full policy is available online at [www.ulethbridge.ca/policy/resources/final-grade-appeal-procedure-undergraduate-and-graduate-students](http://www.ulethbridge.ca/policy/resources/final-grade-appeal-procedure-undergraduate-and-graduate-students).

**c. Student Discipline Policy - Academic Offences**

The integrity of the University and of the degrees the University confers is dependent upon the honesty and soundness of the teacher-student relationship, as well as the integrity of the evaluation process. Conduct by any student that adversely affects this relationship or process represents an academic offence. The following describes the principal academic offences and procedures for their investigation and penalization. This policy pertains to such conduct where it involves any person registered in a University course (credit or non-credit).

The policy defines plagiarism, cheating, duplication, confidential materials, misrepresentation and other offences along with the disciplinary action.

The full policy is available online at [www.ulethbridge.ca/policy/resources/student-discipline-policy-academic-offences-undergraduate-students](http://www.ulethbridge.ca/policy/resources/student-discipline-policy-academic-offences-undergraduate-students).

**d. Student Discipline Policy - Non-Academic Offences****NOTE: Urgent Situations**

**Notwithstanding the information below, in the context of non-academic offences, any member of the University community who becomes aware of an urgent situation and has reasonable cause to believe that serious harm to individuals may result must immediately notify the Chief Safety Officer (telephone: 403-329-2345) or call 911.**

The integrity of the University community depends upon student conduct which upholds the Principles of Student Citizenship (see **University of Lethbridge Principles of Student Citizenship, p. 9**). Basic principles of academic integrity include, "honesty in learning, teaching, research, service; respect [for]...colleagues, instructors, and administration...responsible for upholding the integrity of scholarship and research." The following describes the principle non-academic offences and procedures for their investigation and penalization. This policy pertains to such conduct where it involves any person registered in a University course (credit or non-credit).

The policy defines disruption; abuse harassment and dangerous activity; misuse or misappropriation of University Property, equipment facilities or services; misrepresentation and falsified documents and other offences along with initiation of disciplinary procedures.

The full policy is available online at [www.ulethbridge.ca/policy/resources/student-discipline-policy-non-academic-offences-undergraduate-and-graduate-students](http://www.ulethbridge.ca/policy/resources/student-discipline-policy-non-academic-offences-undergraduate-and-graduate-students).

**e. Authority to Rescind Registration Privileges/Prohibit Access to University Property**

This policy specifies the circumstance where the President may rescind registration privileges.

The full policy is available online at [www.ulethbridge.ca/policy/resources/caveat-authority-rescind-registration-privilegesprohibit-access-university-property](http://www.ulethbridge.ca/policy/resources/caveat-authority-rescind-registration-privilegesprohibit-access-university-property).

**f. Appeal of Application of Policy Other Than Grade or Student Discipline**

Students dissatisfied with the application of an academic policy or regulation to their own status, other than grade or student discipline, are entitled to a review by the Dean of the Faculty or School in which they are registered.

The full policy is available online at [www.ulethbridge.ca/policy/resources/appeal-application-policy-other-grade-or-student-discipline-undergraduate-students](http://www.ulethbridge.ca/policy/resources/appeal-application-policy-other-grade-or-student-discipline-undergraduate-students).

**g. Academic Accommodations for Students with Disabilities**

The University of Lethbridge will take all reasonable measures short of undue hardship to promote full access to all services for students with disabilities in its post-secondary education programs (credit and non-credit) and community outreach components.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**h. Artwork Placement Policy**

The University of Lethbridge encourages and nurtures creative expression and supports the display of student artist artwork. This policy outlines artwork replacement rules and artwork placement locations to ensure safe installation and removal.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**i. Acceptable Use of Computing, Information and Technology Resources Policy**

Computer and network resources are critical resources at the University of Lethbridge. The purpose of this policy is to ensure the efficient operation and distribution of these resources.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**j. Confidentiality of Student Records Policy**

In choosing to pursue a post-secondary education, students must be aware that the record of their academic performance will be viewed and evaluated by others. At the same time, the right to privacy assert that individuals have a legitimate interest in controlling what information about themselves they will reveal to others and what uses may be made of this information.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**k. Copyright**

All University of Lethbridge students are obliged to uphold Canadian copyright law. Students needing assistance in using copyrighted materials in copyright-compliant ways are encouraged to contact the University Copyright Advisor office ([copyright@uleth.ca](mailto:copyright@uleth.ca); 403-332-4472) or consult the wide range of information available on the University's Copyright website ([library.ulethbridge.ca/copyright](http://library.ulethbridge.ca/copyright)).



**l. Library Access Policy**

The purpose of the University Library's resources and services is to further the academic mandate of the University by facilitating access to information in all formats for the purposes of study and research. The objective of the Access Policy is to provide equitable access to the resources and services of the University Library.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**m. Library Code of Conduct**

The University Library - as a central learning area and a shared, common resource - is committed to providing users with fair and equitable access to Library materials, resources, and services.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**n. Managing Unacceptable Behaviour by External Users of University Facilities**

This policy provides a process to deal with unacceptable behaviour of external users and to protect University property, services, faculty, staff, students, and other users from such behaviour when it occurs.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**o. Policy Against Hazing**

The University of Lethbridge has a zero tolerance policy on hazing. Hazing activities of any type are inconsistent with the mission and vision of the University and are prohibited at all times.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**p. Revoking Degrees**

The policy defines conditions where a degree could be revoked.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**q. Behavioural Intervention Policy**

The Behavioural Intervention Policy provides a procedure and mechanism by which worrisome or potentially harmful behaviours may be reported, assessed, and responded to by the University.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**r. Student Housing Policy**

Student housing accommodation at the University provides convenient living accommodation together with services and programs from which residents may secure additional education, social, and cultural advantages. The University is concerned not only with the physical environment within student housing, but also with activities which will provide an educational experience aimed at aiding the personal growth of each resident.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**s. International Travel Policy**

This policy sets out standards to ensure safer experiences for University of Lethbridge students who travel internationally as part of a University program or activity.

The full policy is available online at [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

**t. Recording of Lectures**

Lectures and performances given by academic staff members and visiting speakers may be audio or video recorded by students provided prior approval has been granted by the instructor or performer. Permission to record is solely for the purpose of personal study by the student and does not convey any right to duplicate the recording.

**u. Other Policies**

For more information regarding other University policies pertaining to alcohol, animals on campus, cannabis, sexual violence, smoking, weapons, research, and others, see [www.ulethbridge.ca/policy](http://www.ulethbridge.ca/policy).

# GRADUATION

<b>1. APPLICATION FOR GRADUATION .....</b>	<b>66</b>
a. Application Deadlines .....	66
b. Outstanding Accounts .....	66
<b>2. CREDENTIAL.....</b>	<b>66</b>
a. Academic Transcripts.....	66
<b>3. NAMES ON PARCHMENTS.....</b>	<b>66</b>
<b>4. ISSUANCE OF A PARCHMENT .....</b>	<b>66</b>
<b>5. AWARDED POSTHUMOUSLY .....</b>	<b>66</b>
<b>6. REVOKING DEGREES.....</b>	<b>66</b>

## I. APPLICATION FOR GRADUATION

Each degree, diploma, or certificate candidate must formally apply to graduate by completing the *Application for Graduation* available on the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)).

Students who are not eligible to graduate will submit another application by the appropriate future deadline.

### a. Application Deadlines

All dates and deadlines regarding graduation and convocation are located in the **Academic Schedule (p. 15)**.

### b. Outstanding Accounts

Students owing the University of Lethbridge fees, fines or other charges will not be permitted to graduate and will have academic transcripts withheld. Outstanding fees include tuition fees, housing charges (including Telecom charges), and library fines.

## 2. CREDENTIAL

A credential is evidence of program completion and is represented as a notation on the academic transcript. A parchment is a document made of superior paper that recognizes the credential.

### a. Academic Transcripts

After official verification and after completion of the conferral process, Student Enrolment and Registrar Services includes an official notation on all academic transcripts of graduated students that the degree, diploma, or certificate has been awarded. This notation includes the major(s), minor(s), concentrations, and specialization designation, and any Academic Distinction, Honours Thesis or Co-operative Education designations.

## 3. NAMES ON PARCHMENTS

The full legal name of the graduand will appear on the parchment. Changes in name must be supported by copies of legal documentation (e.g., marriage certificate, divorce decree, vital statistics certificate). **Legal given names cannot be replaced with nicknames or initials.**

## 4. ISSUANCE OF A PARCHMENT

The original parchment is provided to the graduand as part of the graduation process.

In order to receive an additional or replacement parchment, the graduand will need to submit a signed request and return the original parchment to Student Enrolment and Registrar Services. Accommodations may be arranged if the original parchment is not able to be submitted.

## 5. AWARDED POSTHUMOUSLY

With the approval of a Faculty or School Council, a degree, diploma or certificate may be awarded posthumously to a deceased student who had completed their program or was completing the last term of their program. Posthumous awards will be noted on the academic transcript and parchment.

## 6. REVOKING DEGREES

The University has a policy to govern the revoking of a degree after it has been awarded. See **Academic Regulations, Student Policies, p. 62**. The full policy is available online at [www.ulethbridge.ca/policy/revoking-degrees-policy](http://www.ulethbridge.ca/policy/revoking-degrees-policy).

# CONVOCATION

<b>1. CONVOCATION INVITATION .....</b>	<b>68</b>	<b>4. ACADEMIC DRESS .....</b>	<b>69</b>
<b>2. CONFERRAL .....</b>	<b>68</b>	a. Gown .....	69
a. Order of Conferral .....	68	b. Hood.....	69
b. Distinction or Great Distinction .....	68	c. Cap .....	69
c. Medals .....	68	d. Honourary Degree .....	69
<b>3. CONVOCATION ATTENDANCE.....</b>	<b>68</b>	e. Academic Staff Party .....	69
a. Graduands .....	68	<b>5. RECOGNITION AND CELEBRATORY DRESS ..</b>	<b>70</b>
b. Guests.....	68	a. Cords of Distinction and Great Distinction ..	70
c. Academic Staff .....	69	b. Indigenous Stole .....	70
d. Chancellor's Party.....	69		

## 1. CONVOCATION INVITATION

In late March (for May/June Convocation) or late August (for October Convocation), an invitation is mailed to each applicant's permanent address. Applicants can also access this information online at [www.ulethbridge.ca/convocation](http://www.ulethbridge.ca/convocation).

Students may only attend the Convocation ceremony to which they have applied and have been invited to attend.

## 2. CONFERRAL

The conferral of degrees, diplomas, and certificates occurs during Convocation ceremonies held twice annually, and in absentia once annually.

Convocation ceremonies, where conferral takes place for students who have fulfilled degree, diploma, or certificate requirements, during the fall and spring terms are scheduled for the Thursday and Friday following the week of the Victoria Day long weekend. Students who have completed degree requirements in the fall term and had their credential conferred upon them in absentia in February will be invited to attend this Convocation ceremony to celebrate and receive their parchments.

A Convocation ceremony for students who have fulfilled degree, diploma, or certificate requirements during the summer term is scheduled for the Saturday following Thanksgiving in October. See the **Academic Schedule, p. 15** for dates.

If a graduand is absent from their appointed Convocation ceremony, their degree, diploma, or certificate parchment will only be released following the Convocation ceremony. Parchments are available for pickup at Student Enrolment and Registrar Services during the week following the Convocation ceremonies. Parchments not picked up will be mailed to each students' permanent address.

Term of Completion	Conferral	Convocation Ceremony
Fall	February	May/June
Spring	May/June	May/June
Summer	October	October

### a. Order of Conferral

For information regarding the order of conferral, please see [www.ulethbridge.ca/convocation](http://www.ulethbridge.ca/convocation).

### b. Distinction or Great Distinction

Undergraduate degrees with Distinction or Great Distinction are conferred upon students who have displayed outstanding academic performance during their undergraduate degree programs. In the Faculty of Education, outstanding practicum performance is also required.

Standards for Distinction or Great Distinction are defined by the Faculty of School. Please refer to **Institutional Honours** in the relevant Faculty or School section of the Calendar for information on how these honours designations are awarded.

### c. Medals

Each year, Faculties and Schools award a University of Lethbridge Gold Medal to their most distinguished graduand. Two medals are awarded by the Faculty of Arts and Science.

The Silver Medal of the Governor General of Canada is awarded to the graduate with the highest academic standing in an undergraduate program.

The Gold Medal of the Governor General of Canada is awarded to the graduate with the highest academic standing in a graduate program.

The School of Graduate Studies Silver Medals of Merit are awarded to a graduating student from each degree program for excellence in graduate studies.

The William Aberhart Gold Medal in Education is awarded to the graduating student who has shown the highest general proficiency in the final two years of the Bachelor of Education program.

Applications for these medals are not required. For complete information, please refer to **Awards and Scholarships, Academic Medals (p. 530)**.

## 3. CONVOCATION ATTENDANCE

### a. Graduands

Graduands include only those whose degrees, diplomas, or certificates have been approved by their Faculty or School Council and who have no outstanding accounts with the University. The list of graduands is compiled and maintained by Student Enrolment and Registrar Services.

The graduands process as a discrete group, sit in an area reserved for graduands, and proceed to the platform to have their credential conferred under the guidance of the Marshals of the Graduands. Unless a graduand can demonstrate a special need (e.g. service dog), no one except approved graduands will process and sit with the graduands, or appear on the platform for conferral.

### b. Guests

Guest seating at Convocation is open to the general public subject to availability of seats within prescribed safety limits of the venue. However, the first priority for guest seating is assigned to invited guests of University of Lethbridge graduands.

**c. Academic Staff**

For the purposes of Convocation, the Academic Staff Party is restricted to Professors Emeriti, the Registrar, current and retired faculty members, and Librarians, excluding Deans and Vice-Presidents. The Academic Staff process as a discrete group and sit on the platform.

Any individual listed as a faculty member in the Calendar of an accredited post-secondary institution, the focus of which is on teaching, scholarship, and research, shall be allowed to join and to process with the Academic Staff Party upon request to the Convocation Coordinator.

**d. Chancellor's Party**

The Chancellor's Party includes the Chair of the Board of Governors, President and Vice-Chancellor, all Deans and Vice-Presidents, members of the Senate Executive Committee, members of the Board of Governors, member from the Iniskim Education Committee or their designate, and all those distinguished guests invited to Convocation by the Chancellor (including those individuals selected to receive honours). The Chancellor's Party processes as a discrete group and sits according to a seating plan in a reserved area of the platform.

**4. ACADEMIC DRESS**

The University of Lethbridge academic dress has been uniquely designed for the University. At Convocation, graduating students wear celebratory regalia with a hood associated with the credential being conferred, as described below.

**a. Gown**

Bachelor's degree, master's degree, diploma, and certificate graduands wear a black gown.

Doctor of Philosophy graduands wear a royal blue gown with walden blue velvet facings and chevrons, outlined in bright gold piping. In place of the gown, the University invites North American Indigenous graduands to wear cultural dress in combination with the hood associated with their academic program.

**b. Hood**

All graduands will wear a hood associated with the credential being conferred.

The Undergraduate certificate and diploma hood is a shell of black lined with blue, trimmed with a twisted gold and blue cord without a braid.

The Bachelor's degree hood is a shell of black lined with blue, trimmed with a twisted gold and blue cord. Specific degrees are distinguished by the colour of braid on the lining, described below. Hoods for graduands of combined degree program feature the braids for both degrees awarded.

Program(s)	Braid
Bachelor of Arts:	White braid
Bachelor of Science	Golden yellow braid
Bachelor of Arts and Science	White and gold braid
Bachelor of Education	Light blue braid
Bachelor of Fine Arts	Brown braid
Bachelor of Music	Pink braid
Bachelor of Health Sciences	Red and gold braid
Bachelor of Nursing	Red braid
Bachelor of Therapeutic Recreation	Green braid
Bachelor of Management	Light brown braid

**c. Cap**

Graduands in the academic procession will be provided with the approved academic headwear which is worn, without alteration, at the Convocation ceremony.

Bachelor's degree, Master's degree, Diploma, and Certificate graduands wear a black mortarboard with a black tassel.

Doctor of Philosophy graduands wear a walden blue befeater with a bright gold tassel.

Graduands may opt to wear religious headwear or cultural North American Indigenous headwear in place of the academic cap provided.

**d. Honourary Degree**

Honourary degree recipients wear a blue robe with thin gold trim and gold sleeves, and a blue mortarboard with a gold tassel. Honourary degree hoods are a shell of light blue with a chevron of gold and blue lining with a border of white velvet.

**e. Academic Staff Party**

Academic staff shall be robed in the academic regalia to which they are entitled by virtue of their recognized academic degree or, failing that, in the approved cap and gown of the University of Lethbridge.

North American Indigenous academic staff are invited to wear cultural dress.

**5. RECOGNITION AND CELEBRATORY DRESS****a. Cords of Distinction and Great Distinction**

Bachelor's degree graduands who are being awarded their degrees with Distinction or Great Distinction will be gifted with and recognized by Cords of Distinction.

**b. Indigenous Stole**

Self-declared North American Indigenous graduands will receive the gift of a University of Lethbridge Indigenous stole to be worn as part of the regalia. The decorative stole is embroidered with an Eagle Feather, Metis infinity symbol, buffalo, and Inukshuk. These stoles are available for all self-declared North American Indigenous graduands who attend their Convocation Ceremony.

# UNIVERSITY OF LETHBRIDGE INTERNATIONAL

<b>I. INTERNATIONAL STUDENTS.....</b>	<b>72</b>
a. Admission .....	72
b. Fees.....	72
c. Mandatory Health Care Insurance for International Students .....	72
d. Authorization to Study in Canada.....	72
<b>2. EXCHANGE STUDENTS .....</b>	<b>72</b>
a. Outgoing Exchange Students.....	72
b. Incoming Exchange Students.....	72
<b>3. VISITING STUDENTS.....</b>	<b>72</b>
<b>4. INTERNATIONAL STUDENT ADVISING.....</b>	<b>72</b>
<b>5. ENGLISH FOR ACADEMIC PURPOSES (EAP) ..</b>	<b>73</b>
a. Admission .....	73
b. Placement .....	73
c. Program Requirements .....	73
d. Academic Course Registration .....	73
e. Withdrawal .....	73
f. Required Withdrawal .....	73
g. Fees.....	73



## I. INTERNATIONAL STUDENTS

An international student is any student whose country of citizenship is not Canada, and who is not a Permanent Resident of Canada.

### a. Admission

1. Admission Requirements and Procedures

For information on admission, see **Admission (p. 21)**.

2. English Language Requirements

All applicants to undergraduate programs must fulfill the English Language Proficiency requirement, regardless of citizenship or country of origin. See **Admission, English Language Requirements (p. 30)**.

### b. Fees

For information on international student fees, see the fee schedules in **Fees (p. 43)**.

### c. Mandatory Health Care Insurance for International Students

The University of Lethbridge requires all students to obtain and carry basic health insurance, in addition to the Students' Union supplementary health insurance plan or equivalent. Students include all individuals registered in credit or non-credit courses and programs at the University of Lethbridge. Such insurance must be arranged prior to the commencement of classes for each term of study. The University reserves the right to rescind registration privileges from any student not carrying basic health insurance.

### d. Authorization to Study in Canada

Most foreign nationals require a study permit to study in Canada. Visit [www.canada.ca/en/services/immigration-citizenship.html](http://www.canada.ca/en/services/immigration-citizenship.html) for information on how to obtain a study permit after admission to the University of Lethbridge.

## 2. EXCHANGE STUDENTS

An exchange student is any student who is enrolled at one university but attending another university under an approved exchange agreement.

### a. Outgoing Exchange Students

University of Lethbridge students who are required to or wish to participate in an approved international exchange program are required to contact the International Office. There are currently approved exchange programs at institutions in over 25 countries. Some exchange programs are only available to students in specific Faculties/Schools or programs at the University of Lethbridge. To see a current list of countries available for exchange, please visit [www.ulethbridge.ca/international/content/education-abroad](http://www.ulethbridge.ca/international/content/education-abroad).

For further information, contact the International Office:

Office: SU060 (Students' Union Building)

Email: [outgoing@uleth.ca](mailto:outgoing@uleth.ca)

Phone: 403-329-2053

Fax: 403-382-7140

### b. Incoming Exchange Students

Students enrolled at one of our international partner universities who wish to participate in an exchange program at the University of Lethbridge are required to apply through their home university.

For procedures and information pertaining to Exchange Students, see **Admission, Information for Incoming Exchange Students (p. 34)**.

## 3. VISITING STUDENTS

Individuals currently enrolled in a degree program at another recognized degree-granting institution who wish to enrol in courses at the University of Lethbridge for credit at their home institution are advised to request a Letter of Permission issued by their home institution.

International Visiting students are approved by the International Office and are able to study at the University of Lethbridge for up to two terms. Visiting students will contact the International Office ([international@uleth.ca](mailto:international@uleth.ca)) to coordinate their studies.

Visiting students register for courses as Open Studies students. It is the responsibility of the Visiting student to meet any applicable course prerequisites. Registration in specific courses is not guaranteed. For additional information, see **Registration, Open Studies Student (p. 39)**.

## 4. INTERNATIONAL STUDENT ADVISING

The International Office provides non-academic advising services to assist international students in adapting to campus life. International Student Advisors provide assistance related to immigration, and academic and cultural transition.

For further information, contact the International Office:

Office: SU060 (Students' Union Building)

Email: [international.advice@uleth.ca](mailto:international.advice@uleth.ca)

Phone: 403-329-2053

Fax: 403-382-7140

## 5. ENGLISH FOR ACADEMIC PURPOSES (EAP)

The University of Lethbridge English Language Institute (ELI) is responsible for the English for Academic Purposes program, a non-credit English as an Additional Language program.

The English for Academic Purposes program is designed for students who are seeking admission into degree programs. Students who successfully complete the Advanced Level of EAP will satisfy the University of Lethbridge English Language Proficiency (ELP) requirement, for either undergraduate or graduate levels, and will not be required to submit a standardized English language test score (e.g., TOEFL, IELTS or CAEL) for University of Lethbridge admission.

The EAP program does not satisfy the University of Lethbridge Spoken English Language Proficiency (SELP) requirement for programs offered by the Faculty of Health Sciences (see **Admission, English Language Requirements, p. 30**).

The EAP program is available on the Lethbridge campus.

### a. Admission

Admission requirements for all applicants to the English for Academic Purposes (EAP) program, including those not seeking admission into a degree program, can be found within **Admission, English for Academic Purposes Admission Route (p. 28)**.

### b. Placement

Placement tests are administered at the beginning of each term to determine each student's current level of ELP.

Generally, overall Common European Framework of Reference (CEFR) levels (and IELTS scores) co-relate as such:

Level of English Language Proficiency (ELP)	Common European Framework of Reference (CEFR)	International English Language Testing System (IELTS)
Pre Intermediate	CEFR A2	IELTS 4.0
Intermediate	CEFR A2/B1	IELTS 4.5
High Intermediate	CEFR B1	IELTS 5.0
Advanced	CEFR B1/B2	IELTS 5.5

Upon assessment of student work within the first week of classes, an instructor may recommend to the Manager, English Language Institute that a student be moved to a higher or lower level at the beginning of the second week of classes. Changes will not be typically made after this time.

### c. Program Requirements

The EAP program is comprised of the courses listed below. The number of courses required to complete the EAP program may vary based on the initial placement of a student.

#### Required courses:

English for Academic Purposes 0110 - Pre-Intermediate Reading and Writing  
 English for Academic Purposes 0111 - Pre-Intermediate Communication (Listening and Speaking)  
 English for Academic Purposes 0120 - Intermediate Reading and Writing  
 English for Academic Purposes 0121 - Intermediate Communication (Listening and Speaking)  
 English for Academic Purposes 0130 - High Intermediate Reading and Writing  
 English for Academic Purposes 0131 - High Intermediate Communication (Listening and Speaking)  
 English for Academic Purposes 0140 - Advanced Reading and Writing  
 English for Academic Purposes 0141 - Advanced Communication (Listening and Speaking)

### d. Academic Course Registration

Students who are admitted to EAP and place into the Advanced EAP level may be given permission to enrol in either EAP 0140 or EAP 0141 and one academic undergraduate course. Consideration is based on ELI placement scores, recent external language test scores, student conferencing and consultation with appropriate international student advisors and academic advisors.

Academic course registration will be subject to the approval of the Manager, English Language Institute, in close consultation with an international student advisor and/or appropriate academic advisors. Students who do not successfully complete the remaining EAP component will not be admitted to an undergraduate academic program until the ELP requirement has been satisfied.

### e. Withdrawal

Students in the EAP program are strongly advised to see the International Student Advisor prior to withdrawing from an EAP course. For more information regarding course withdrawals, please see **Registration, Withdrawal (p. 42)**.

### f. Required Withdrawal

An EAP student who does not successfully complete any EAP course after three terms will be required to withdraw.

### g. Fees

For information on international student fees, see the fee schedules in **Fees (p. 43)**.



# UNIVERSITY LIBRARY

<b>1. GENERAL PHILOSOPHY AND INFORMATION</b>	<b>76</b>
<b>2. SERVICES</b>	<b>76</b>
a. Campus Services	76
b. Liaison Librarians	76
c. Scholarly Communications and Research Support	77
d. University Copyright Advisor	77
<b>3. INSTRUCTION</b>	<b>77</b>
a. Credit Courses	77
b. Embedded Instruction	77
c. Additional Instructional Programming	77
<b>4. COLLECTIONS</b>	<b>77</b>
a. Physical Collections	77
b. Digital Collections	77
c. Special Collections	78
d. Faculty of Education Curriculum Laboratory	78
e. University Archives	78
<b>5. POLICIES AND REGULATIONS</b>	<b>78</b>

## I. GENERAL PHILOSOPHY AND INFORMATION

The University of Lethbridge Library works to advance the scholarly research and creative endeavours of the University through information literacy instruction and information management support. It aims to develop, within the University Community, the skills required to discern the value, authority, relevance and significance of information retrieved to meet post-secondary educational outcomes. The Library promotes teaching excellence, research, information literacy, and research data management for undergraduate and graduate students, and for other members of the University Community. It achieves this through provision of rich and relevant collections, innovative technologies, exemplary assistance, quality instruction, and varied learning and study spaces.

Information literacy is integral to the four pillars of Liberal Education, and is a foundational background for discipline-specific and trans-disciplinary programming. See **School of Liberal Education (p. 79)** for more details regarding the University of Lethbridge Liberal Education philosophy.

### Library Contact and Hours

The Library's hours vary throughout the year. Please check the Library's website for current Library hours.

Email: [gsd.library@uleth.ca](mailto:gsd.library@uleth.ca)  
Phone: 403-329-2265  
Web: [www.ulethbridge.ca/lib/hours](http://www.ulethbridge.ca/lib/hours)

### Library Website

The University of Lethbridge Library website ([www.ulethbridge.ca/lib](http://www.ulethbridge.ca/lib)) provides access to resources and services available both on and offcampus. These include access to the Library catalogue, electronic resources (indexes and databases, e-journals, e-books, etc.), a virtual tour, help guides, and electronic reference services. Off-campus access to licensed online resources is restricted to current University of Lethbridge students and staff.

## 2. SERVICES

### a. Campus Services

The University of Lethbridge Library offers a variety of services to students. For further information on the services outlined here, please visit the Library's website.

#### 1. Assistance

Library staff are available to assist students with research questions and to provide instruction in the effective use of information resources and the tools available to locate them. Staff are available in person at the Research Help Desk, by telephone, email, or via instant messaging ([www.ulethbridge.ca/lib/Ask\\_Us](http://www.ulethbridge.ca/lib/Ask_Us)). Tours of physical and virtual resources are offered at the beginning of the fall term or by special request.

#### 2. Borrowing

Individuals with a valid University of Lethbridge Campus ID Card (including alumni) are entitled to borrow circulating materials from the Library. University of Lethbridge students are also able to obtain The Alberta Library (TAL) Card and a Council of Prairie and Pacific University Libraries (COPPUL) Card at no cost. The TAL Card provides borrowing privileges in more than 300 participating postsecondary and public libraries throughout Alberta, while the COPPUL Card provides reciprocal borrowing privileges in participating academic libraries across Canada.

Loan periods vary depending on the type of material borrowed as some items are non-circulating. Materials in heavy demand, such as required readings for courses, may be placed on reserve and are subject to shortened loan periods.

For details regarding borrowing policies and privileges, see [library.ulethbridge.ca/borrowing](http://library.ulethbridge.ca/borrowing).

#### 3. Interlibrary Loans

Students may request that the Library obtain materials required for study and research that are not available at the University of Lethbridge Library. To learn about Interlibrary Loans, visit [library.ulethbridge.ca/ILborrowing](http://library.ulethbridge.ca/ILborrowing).

#### 4. Media

A collection of equipment is available for loan and includes PC/Mac laptops, projectors, camcorders, audio recorders, etc. Note that some services are restricted to members of the University Community.

#### 5. Study and Creative Facilities

The Library provides a variety of study spaces including bookable group workrooms ([www.ulethbridge.ca/lib/booking](http://www.ulethbridge.ca/lib/booking)), carrels, lounge seating, and tables. The Library is also home to a study space on the 10th level that is available 24 hours a day, 7 days a week. There is access to general-use computers equipped with a variety of creative and productivity software, and access to hardware and software to support the production of multimedia projects. Listening and viewing equipment is available for use with a variety of media types. Group workrooms are equipped with wall-mounted televisions for connecting to laptops. Copiers/printers/scanners are available on all three levels of the Library.

### b. Liaison Librarians

Through a subject area liaison model, each academic subject area, including the School of Graduate Studies, is assigned a liaison librarian. Liaison librarians offer a wide range of instructional and research services, and are also responsible for collection development and management in their assigned subject area disciplines. Liaison librarians work with designated library representatives from each Faculty or School to facilitate communication with staff and students.

### c. Scholarly Communications and Research Support

Librarians inform and support research at the University through consultation, programming, online resources and self-education via web resources in areas such as Open Access publishing, research data management, and scholarly research mobilization. Librarians provide support for the scholarly communications and research lifecycle, including grant-writing, data management, publishing, and understanding measures of research impact. The Library's Centre for the Study of Scholarly Communication ([www.ulethbridge.ca/research/centres-institutes/centre-study-scholarly-communication](http://www.ulethbridge.ca/research/centres-institutes/centre-study-scholarly-communication)) includes academic staff from the Library and Faculties/Schools, complementing the delivery of scholarly communication and research support.

### d. University Copyright Advisor

The University Copyright Advisor office provides strategic direction, operational leadership, and copyright services to students and staff. The office offers:

- Advice on how best to maintain copyright compliance.
- Assistance in interpreting copyright legislation and licence agreements.
- Permissions clearance services for instructors and course packs.
- Timely updates on changes in the University's copyright environment.
- Workshops and educational sessions on copyright.

Current information on copyright issues, support and advice can be found at [library.ulethbridge.ca/copyright](http://library.ulethbridge.ca/copyright).

## 3. INSTRUCTION

### a. Credit Courses

The Library offers credit courses in Library Science (LBSC) and research methods at both the undergraduate and graduate levels. Undergraduate students also have the opportunity to earn academic credit through LBSC Applied Studies and Independent Study courses supervised by a Librarian or University Archivist. Please see **Faculty of Arts and Science, Applied Studies and Co-operative Education (p. 91)** and **Faculty of Arts and Science, Independent Study (p. 91)** for further details.

### b. Embedded Instruction

The Library offers instruction within a number of subject-specific credit courses. This embedded instruction may take the form of tutorials, labs, workshops, and guest lectures, and may or may not be a graded component of the course.

### c. Additional Instructional Programming

The Library provides out-of-classroom opportunities to support undergraduate students, post-doctoral fellows, and other researchers in the changing information environment. Lectures, public presentations, workshops supporting opportunities for students to enhance their technological fluency, problem solving and creativity, and training sessions covering a variety of topics, including EndNote, current issues in scholarly communication, Open Access publishing, Research Data Management, measuring research impact, and more. Instruction is also available online through subject-specific research guides and e-learning modules ([library.ulethbridge.ca/home#s-lib-ctab-16339343-4](http://library.ulethbridge.ca/home#s-lib-ctab-16339343-4)).

## 4. COLLECTIONS

University of Lethbridge Library collections are selected and maintained based on an assessment of quality, relevance, and balance to support and strengthen teaching, learning, and research across campus. The Library provides access to educational materials in a variety of formats that support the University's academic and research programs.

### a. Physical Collections

There are roughly 1.4 million physical items in the collection including books, journals, government publications, audiovisuals, maps, and microforms. Most of this collection is housed in a high-density stack area on Level 9, with current serials, newspapers, the reference collection, new additions to the collection, and a Lethbridge Public Library popular collection being housed on Level 10.

### b. Digital Collections

The Library provides online access to scholarly journals in all disciplines, key reference and government information sources, images, streaming audio and video, and a growing collection of scholarly work published as Open Access. This also includes locally digitized collections of historical and cultural significance to southern Alberta.

#### 1. Blackfoot Digital Library

Hosted by the University Library in partnership with Red Crow Community College, the Blackfoot Digital Library contains primary source materials related to the knowledge, language and history of the Blackfoot people. For more information, see [www.blackfootdigitallibrary.com](http://www.blackfootdigitallibrary.com).

#### 2. Institutional Repository

Theses, articles, and other research outputs produced by the University of Lethbridge academic community can be accessed electronically ([opus.ulethbridge.ca](http://opus.ulethbridge.ca)). This interface also allows for graduate student submission of theses via an e-thesis system.

#### 3. Numerical Data

The University Library is a member of the Data Liberation Initiative, which provides access to Statistics Canada's micro data collections. Other numerical data products the Library subscribes to include SDA@CHASS, Canadian Census Analyser and the Inter-University Consortium for Political and Social Research (ICPSR) Data Archive.

#### 4. GIS and Spatial Data

The Library is a member of the GEODE Consortium, which provides enhanced access to digital mapping data pertaining to Alberta. It is also a participant in the DMTI Spatial Academic Consortium, which provides access to digital mapping products produced by DMTI Spatial.

#### c. Special Collections

The University of Lethbridge Library maintains special collections of rare and antiquarian books as well as a collection of local histories. Special collections are available for private research and reading within the Library as a non-circulating collection. Special collections are housed within University Archives.

#### d. Faculty of Education Curriculum Laboratory

The Curriculum Laboratory, located on Level 11, is a learning resource centre designed to support programs offered by the Faculty of Education. Multi-format materials relevant to the Alberta school curriculum are available for viewing and/or loan. Collections and facilities include group study spaces, Mac computers, a scanner, and other preview and materials preparation equipment. Circulating materials are signed out and returned at the Library's Services Desk. For more information visit [www.ulethbridge.ca/education/currlab](http://www.ulethbridge.ca/education/currlab).

#### e. University Archives

University of Lethbridge Archives is responsible for the collection and preservation of official records which document the University's fulfillment of its teaching, research and public service. University Archives appraises, acquires, arranges, describes, preserves, and makes records available for teaching and research. For more information visit [library.ulethbridge.ca/aschome](http://library.ulethbridge.ca/aschome).

### 5. POLICIES AND REGULATIONS

The University has policies, plans, and publications to provide users with fair and equitable access to Library materials, resources, and services in a productive and safe environment. Users and visitors are expected to engage in behaviour consistent with these goals. Library policies can be found within **Academic Regulations, Student Policies (p. 62)** and are available online at [www.ulethbridge.ca/lib](http://www.ulethbridge.ca/lib).

# SCHOOL OF LIBERAL EDUCATION

<b>I. GENERAL PHILOSOPHY.....</b>	<b>80</b>
a. Liberal Education Model.....	80
b. Pathways to Liberal Education.....	80
c. Role of the School of Liberal Education .....	80
<b>2. ADVISING AND INFORMATION .....</b>	<b>81</b>
a. Dean of Liberal Education .....	81
b. Academic Advising .....	81
<b>3. LIBERAL EDUCATION LIST REQUIREMENT ..</b>	<b>81</b>
a. 40-Course Degree Programs .....	81
b. Post-Diploma Degree Programs .....	81
c. Limitations.....	81
<b>4. LIBERAL EDUCATION LISTS .....</b>	<b>82</b>
a. List I: Fine Arts and Humanities Courses....	82
b. List II: Social Science Courses .....	83
c. List III: Science Courses .....	84



## I. GENERAL PHILOSOPHY

Since its founding, the University of Lethbridge has provided a Liberal Education model that brings its students together in a learning community which offers opportunities and experiences for developing leaders in society. The School of Liberal Education fosters a teaching and learning philosophy for growth in transdisciplinary learning and thinking skills to enable individuals to contribute to their communities at all levels.

### a. Liberal Education Model

The University of Lethbridge Liberal Education model encompasses four main aspects or pillars:

1. Breadth of knowledge across disciplines. Students are exposed to multiple ways of looking at and studying the world beyond their own disciplinary boundaries.
2. Connections and integration of knowledge across disciplines. Students learn about transdisciplinary points of contact across a range of topics.
3. Critical thinking and problem solving skills. Students develop skills to identify arguments, evaluate evidence and reasoning, produce informed decisions, and communicate and defend those decisions.
4. Education for citizenship. Students are encouraged to be contributing community members on all levels from local to global, and to participate in the running of their communities.

These four pillars provide students with the competencies and skills to enhance employability and cultivate the values of good citizenship.

Competencies and Skills	
Breadth	Connections
<ul style="list-style-type: none"> <li>• Knowledge across a range of disciplines</li> <li>• Understand the creation and uses of knowledge in multiple areas</li> <li>• Adaptability</li> <li>• Information literacy</li> <li>• Visual literacy</li> <li>• Quantitative literacy</li> <li>• Statistical literacy</li> </ul>	<ul style="list-style-type: none"> <li>• Compare how knowledge is created and used in various disciplines</li> <li>• Understand complex issues from multiple viewpoints</li> <li>• Learning agility</li> <li>• Interpersonal skills</li> <li>• Team-building skills</li> <li>• Communication skills</li> <li>• Self-expression</li> </ul>
Critical Thinking	Civic Engagement
<ul style="list-style-type: none"> <li>• Creativity</li> <li>• Problem solving</li> <li>• Synthesis and integration of knowledge</li> <li>• Analytical reasoning</li> <li>• Logical reasoning</li> <li>• Evidence-based reasoning</li> <li>• Prepare and defend arguments</li> <li>• Formulate good questions</li> <li>• Writing and communication skills</li> <li>• Learning to learn</li> <li>• Learning agility</li> </ul>	<ul style="list-style-type: none"> <li>• Understand complex social issues from multiple viewpoints</li> <li>• Questioning mind, curiosity</li> <li>• Ability to work toward public good</li> <li>• Make informed and evidence-based decisions</li> <li>• Leadership skills</li> <li>• Use global perspectives</li> <li>• Engage difference</li> <li>• Transcultural understanding</li> </ul>

### b. Pathways to Liberal Education

The University of Lethbridge provides a number of pathways that expose students to the pillars of Liberal Education in a variety of ways. For further information regarding these pathways, visit [www.ulethbridge.ca/liberal-education](http://www.ulethbridge.ca/liberal-education).

The **Liberal Education List Requirement (p. 81)** requires students to take courses from a variety of disciplines.

A number of combined degree programs, including an Individualized Multidisciplinary Major (IMM), and a variety of possible minors (including a minor in Liberal Education) also expose students to breadth and integrative critical thinking. The School of Liberal Education offers courses specifically designated as Liberal Education (LBED) courses which emphasize integration of several pillars and include Topics, Applied Studies, and Independent Study courses. The School of Liberal Education offers students opportunities for undergraduate research projects, tutorial leader positions, and volunteer and service learning. Co-operative Education programs at the University allow students to obtain hands-on experience relevant to their programs.

### c. Role of the School of Liberal Education

The School of Liberal Education integrates all facets of the Liberal Education model at the University of Lethbridge. The School provides support for teaching and learning, student programs, and experiential learning activities. It educates students to develop an understanding of the value of Liberal Education.

The School of Liberal Education oversees and coordinates the following strategic planning and policy development activities:

1. Ensures University focus on the four-pillar Liberal Education model.
2. Integrates programming with all Faculties and Schools.
3. Coordinates and provides direction for the pathways to Liberal Education.
4. Guides and approves the Liberal Education List Requirements for all Faculties and Schools.
5. Oversees the development and offering of LBED courses.

## 2. ADVISING AND INFORMATION

### a. Dean of Liberal Education

As well as being the administrative head of the School of Liberal Education, the Dean has direct responsibility for instruction and courses in Liberal Education (LBED). Appeals and issues of interpretation for students in Liberal Education (LBED) courses, minors, or initiatives should be directed to the Office of the Dean of Liberal Education.

### b. Academic Advising

Students should seek academic advice from the Faculty or School of their program. Academic advisors provide assistance to students regarding their program, major, or other academic concerns. Contact the relevant Faculty or School for information.

## 3. LIBERAL EDUCATION LIST REQUIREMENT

In keeping with the Liberal Education focus of the University, all students in an undergraduate degree program must complete the Liberal Education List Requirement (Lib Ed List Requirement). **As some courses may not fit specific program requirements, students should consult their Faculty or School advising office.**

The Liberal Education Lists provide students with opportunities to critically explore a wide range of disciplines as embedded in academic programming.

- i. Fine Arts and Humanities: The exploration of the human experience including culture, history, language, thought, religion, ethics, arts, and creativity.
- ii. Social Science: The study of individuals and their relationships within society.
- iii. Science: The study of the natural world and conceptual modeling of reality.

### a. 40-Course Degree Programs

Students may complete the Lib Ed List Requirement through one of the following pathways:

Four courses (12.0 credit hours) from each of Lists I, II, and III.

**OR**

Three courses (9.0 credit hours) from each of Lists I, II and III for students who successfully complete both Liberal Education 1000 and either Liberal Education 2000 or Library Science 2000.

**OR**

Three courses (9.0 credit hours) from each of Lists I, II and III for students who successfully complete all of Liberal Education 1000, Liberal Education 1150, and Liberal Education 2150.

**OR**

Three courses (9.0 credit hours) from each of Lists I, II, and III for students who successfully complete both Liberal Education 3010 and Liberal Education 4000.

**OR**

\*Two courses (6.0 credit hours) from each of Lists I, II, and III for students who successfully complete one of the following pairs:

Liberal Education 1000 and Liberal Education 2000; and Liberal Education 3010 and Liberal Education 4000

**OR**

Liberal Education 1000 and Library Science 2000; and Liberal Education 3010 and Liberal Education 4000

**OR**

Liberal Education 1000, Liberal Education 1150, and Liberal Education 2150; and Liberal Education 3010 and Liberal Education 4000

*\*The individual Liberal Education (LBED) and Library Science (LIBR) courses (Liberal Education 1000, Liberal Education 1150, Liberal Education 2000, Liberal Education 2150, Liberal Education 3010, Liberal Education 4000 and Library Science 2000) do not fulfill a requirement for any list.*

### b. Post-Diploma Degree Programs

Students pursuing a post-diploma program offered by the University of Lethbridge are required to complete either the full 12-course (see a. above) or a modified Lib Ed List Requirement. For further information, see the program description in the appropriate part of this Calendar.

#### 1. Full 12-Course Liberal Education List Requirement

Students registered in the Post-Diploma B.A. and B.Sc. in Agricultural Studies, the Post-Diploma B.Sc. in Computer Science, the Post-Diploma B.F.A. - Art or Dramatic Arts, or B.Mus. (after a two year diploma) program are required to meet the full 12-course (36.0 credit hours) Lib Ed List Requirement.

#### 2. Modified Liberal Education List Requirement

Students registered in some post-diploma programs are required to meet a modified Lib Ed List Requirement. For further information, refer to the requirements for individual programs in the appropriate part of this Calendar.

### c. Limitations

There are limitations on the courses that can be used for meeting the Liberal Education List Requirement.

1. Only four courses (12.0 credit hours) in total may be counted from any one discipline. Disciplines are identified by course subject codes (e.g. ENGL, MGT, and MUSI are separate disciplines).
2. Only four courses (12.0 credit hours) in total may be counted from a combination of Liberal Education List courses from the Faculty of Education, Faculty of Health Sciences, and the Dhillon School of Business. That is, only four courses in total having a course title of EDUC, ABHL, ADCS, HLSC, NURS, PUBH, TREC, ACCT, AGEM, FINC, HRLR, IGBM, IMGT, MGT, and MKTG may be counted in meeting the Liberal Education List Requirement.

3. Cross-listed courses count toward the limit for both disciplines (e.g. Indigenous Governance and Business Management 3250/Indigenous Studies 3250 counts toward the limit for Dhillon School of Business courses and Indigenous Studies).
4. Courses may only be counted according to the Liberal Education List in effect in the term in which credit is earned at the University of Lethbridge. For example, if a course is not on the Lib Ed List in the term a student earns credit for it, but the course is subsequently added to the Lib Ed List, the student cannot use the course toward meeting their Lib Ed List Requirement. Applicants presenting transferable courses are deemed to have earned transfer credit at the University of Lethbridge in the term in which a student is first admitted to a University of Lethbridge program (for more information, see **Admission, Transfer Credit, p. 32**).

#### 4. LIBERAL EDUCATION LISTS

The School of Liberal Education, in consultation with the Faculties and Schools, has the ultimate authority to approve and designate courses to be placed on each list.

Courses offered as Series, Topics, Applied Studies Disciplinary Credit, Independent Studies, Undergraduate Thesis and Interdisciplinary Studies may be designated as Fine Arts and Humanities, Social Science, or Science and may be so designated at the time of offering.

**Courses marked with an asterisk (\*) listed under List III: Science Courses can be used as either a List III: Science Course or a List II: Social Science Course for the purposes of completing the Liberal Education List Requirement.**

As some courses may not fit specific program requirements, students should consult their Faculty or School advising office.

##### a. List I: Fine Arts and Humanities Courses

Aboriginal Health

Aboriginal Health 3300 - Traditional Aboriginal Health Concepts

Agricultural Studies

Agricultural Studies 1000 - The Evolution of Agriculture

Art - all courses

Art History - all courses

Asian Studies

Asian Studies 2020 - Japan, Asia, and the World

Asian Studies 3200/Religious Studies 3200 - Asian Religions and Film (Series)

Asian Studies 3400/Japanese Studies 3400 - Japanese Society and Culture

Blackfoot - all courses

Cinema - all courses

Cree - all courses

Drama - all courses

English - all courses

Fine Arts - all courses, including those cross-listed with Health Sciences

French - all courses

Greek - all courses

Health Sciences

Health Sciences 2450/History 2450 - Evolution of Health and Illness Care

Health Sciences 3560/History 3560 - History of Nursing: Women and the Care of the Sick

Health Sciences 4500/Fine Arts 4500 - Global Health, Fine Arts, and Social Change

Health Sciences 4510/Fine Arts 4510 - Global Health and Arts for Change Field Study

Hebrew - all courses

Hispanic Studies - all courses

History - all courses, including those cross-listed with Health Sciences

Indigenous Governance and Business Management

Indigenous Governance and Business Management 2500 - Introduction to Indigenous Governance and Business Management

Indigenous Governance and Business Management 3250/Indigenous Studies 3250 - Canadian Indigenous Project Management

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources

Indigenous Governance and Business Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

Indigenous Governance and Business Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance

Indigenous Governance and Business Management 4120/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

Indigenous Governance and Business Management 4150/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments

Indigenous Studies - all courses, including those cross-listed with Indigenous Governance and Business Management, excluding Indigenous Studies 3592/Indigenous Governance and Business Management 3592, Indigenous Studies 4501/Indigenous Governance and Business Management 4501, and those designated as Social Science courses

## Interdisciplinary Studies

Interdisciplinary Studies 0520 - Bridging Cultures: Two-Eyed Seeing

Japanese - all courses

Japanese Studies - all courses, including those cross-listed with Asian Studies

## Kinesiology

Kinesiology 2130 - Humanities Perspectives

Kinesiology 3400 - History of Sport and Physical Activity

Kinesiology 3430 - Literature and Physical Activity

Kinesiology 3740 - Philosophy of Physical Activity

Kinesiology 4400 - Canadian Sport History

Kinesiology 4640 - Applied Ethics in Sport and Physical Activity

Latin - all courses

## Liberal Education

Liberal Education 2400 - Great Literature and Thought Across Disciplines: A Brief History

Liberal Education 3400 - Great Literature and Thought Across Disciplines: The Long Conversation

Linguistics - all courses, excluding those designated as Social Science courses

## Management

Management 3710 - Managing Not-for-Profit Organizations

Modern Languages - all courses, including any non-English second language course offered by another unit in the Faculty of Arts and Science

Museum Studies - all courses

Music - all courses, excluding Music Ensemble Activity courses

Music Studio - all courses

New Media - all courses

Philosophy - all courses, excluding those designated as Science courses

## Political Science

Political Science 2511 - Introduction to Political Theory

Political Science 3511 - Political Thought Since 1500 (Series)

Political Science 3525 - Politics of Reason and Revelation

Political Science 4511 - Seminars in Political Philosophy (Series)

Religious Studies - all courses, including those cross-listed with Asian Studies

Spanish - all courses

Writing - all courses

**b. List II: Social Science Courses**

## Aboriginal Health

Aboriginal Health 1000 - Introduction to Aboriginal Health

Aboriginal Health 2000 - Indigenous Healing and Restoration

Aboriginal Health 3310 - Contemporary Issues in Aboriginal Health

## Accounting

Accounting 2100 - Introductory Accounting

Accounting 3190 - Not-for-Profit and Public Sector Accounting and Performance Management

## Addictions Counselling

Addictions Counselling 1000 - Introduction to Addiction Studies

Addictions Counselling 3002 - Health Education and Promotion

Agricultural Studies - all courses, excluding those designated as Humanities courses or Science courses

Anthropology - all courses

Archaeology - all courses, excluding those designated as Science courses

Asian Studies - all courses, excluding those designated as Humanities courses

Economics - all courses, including those cross-listed with Management, and excluding those designated as Science courses

Geography - all courses, including those cross-listed with International Management, and excluding those designated as Science courses

## Health Sciences

Health Sciences 1010 - Personal Health and Wellness

Health Sciences 1170 - Human Development Across the Lifespan

Health Sciences 2600/Women and Gender Studies 2100 - Women and Health

Health Sciences 2700/Sociology 2700 - Health and Society

Health Sciences 3002 - Health Promotion  
 Health Sciences 3125 - Pain Management  
 Health Sciences 3127 - Loss, Grief and Bereavement  
 Health Sciences 3150 - Abnormal Psychology  
 Health Sciences 3570/Psychology 3570 - Contemporary Issues in Mental Health  
 Health Sciences 3802 - Gerontology  
 Health Sciences 3860 - Men's Health

#### Human Resources and Labour Relations

Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Human Resources and Labour Relations 3050 - Human Resource Management

#### Indigenous Governance and Business Management

Indigenous Governance and Business Management 3515/Indigenous Studies 3515 - Canadian Indigenous Negotiations  
 Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management  
 Indigenous Governance and Business Management 4570/Indigenous Studies 4570 - Indigenous Leadership and Management

#### Interdisciplinary Studies

Interdisciplinary Studies 2008 - Japanese Culture  
 Interdisciplinary Studies 2600 - Study Tour of Japan  
 Interdisciplinary Studies 2601 - Study Tour of South Korea

#### International Management

International Management 3170/Political Science 3170 - The Politics of Canadian Trade Policy  
 International Management 3225/Geography 3225 - Industrial Location and Globalization of Enterprise  
 International Management 3551/Geography 3551 - An Introduction to Tourism  
 International Management 3640 - Cross-Cultural Management Practices  
 International Management 3650 - Introduction to International Management

Kinesiology - all courses, excluding those designated as Humanities courses or Science courses

#### Liberal Education

Liberal Education 1500 - The First-Year Experience: Mapping Our Communities

#### Linguistics

Linguistics 3240/Psychology 3240 - Psychology of Language  
 Linguistics 3405/Psychology 3405 - First Language Acquisition

#### Management

Management 1000 - Introduction to Management  
 Management 3031 - Managing Responsibly in a Global Environment  
 Management 3070 - Supply Chain Management and Sustainability  
 Management 3780/Economics 3780 - Principles of Industrial Organization

#### Marketing

Marketing 3250 - Social Marketing

Political Science - all courses, including those cross-listed with International Management, and excluding those designated as Humanities courses

#### Public Health

Public Health 1000 - Introduction to Public Health  
 Public Health 2000 - Population Health

Psychology - all courses, including those cross-listed with Health Sciences or Linguistics, and excluding those designated as Science courses

Sociology - all courses, including those cross-listed with Health Sciences

Women and Gender Studies - all courses, including those cross-listed with Health Sciences

### c. List III: Science Courses

#### Agricultural Studies

- \*Agricultural Studies 3300 - Modelling of Agricultural Systems
- \*Agricultural Studies 4300 - Advanced Modelling of Agricultural Systems

#### Archaeology

- \*Archaeology 1000 - Introduction to Archaeology
- Archaeology 3000 - Archaeological Science (Series)
- Archaeology 3300 - Archaeological Field Work (Series)
- Archaeology 3600/Liberal Education 3600 - Human Evolution
- Archaeology 3700 - Geoarchaeology and Landscape Analysis
- Archaeology 3720 - Archaeological Materials Analysis
- Archaeology 4000 - Advanced Archaeological Science (Series)
- \*Archaeology 4500 - Advanced New and Old World Archaeology (Series)

Astronomy - all courses

Biochemistry - all courses

Biology - all courses, including those cross-listed with Health Sciences

Chemistry - all courses

Computer Science - all courses

Economics

Economics 2070/Management 2070 - Operations and Quantitative Management

Economics 2750 - Quantitative Methods in Economics

Economics 2900 - Economics and Business Statistics

Economics 3950 - Econometrics I

Economics 4150 - Mathematical Economics

Economics 4960 - Econometrics II

Engineering

Engineering 2000 - Engineering Statics

Engineering 2060 - Engineering Mechanics

Environmental Science - all courses, excluding those designated as Social Science

Geography

Geography 1000 - Introduction to Physical Geography

Geography 2030 - Geomorphology

Geography 2070 - Hazards, Disasters and Global Change

Geography 2090 - Biogeography

Geography 2300 - Weather and Climate

Geography 2700 - Geographical Data and Analysis

Geography 2735 - Introduction to Geographical Information Science

Geography 3060 - Glaciology and Glacial Geomorphology

Geography 3080 - Soils

Geography 3300 - Microclimatology

Geography 3400 - Hydrology

Geography 3440/Environmental Science 3440 - Wetlands

Geography 3700 - Mapping in the Cloud

Geography 3710 - Field Techniques in the Earth Sciences

Geography 3720 - Remote Sensing

Geography 3740 - Geographical Information Systems

Geography 3750 - GIS Applications in Human Geography

Geography 3780 - Field Research in Geography

Geography 3792 - Field Excursion in Physical Geography (Series)

Geography 4030 - Advanced Physical Geography (Series)

Geography 4060 - Agricultural Soil Management

Geography 4065 - Irrigation Science

Geography 4300 - Climate Science, Impacts, Solutions

Geography 4400 - Advanced Hydrology

Geography 4700 - Advanced Digital Mapping

Geography 4710 - Remote Sensing Field Techniques

Geography 4725 - Advanced Remote Sensing

Geography 4730 - Spatial Statistics

Geography 4740 - Advanced Geographical Information Systems

Geography 4751 - Spatial Modelling

Geography 4753 - Seminar in Remote Sensing

Geology - all courses

Health Sciences

Health Sciences 2003/Biology 2003 - Epidemiology

Health Sciences 2310 - Human Nutrition

Health Sciences 2806/Biology 2806 - Immunology

Health Sciences 3450/Psychology 3450 - Applied Statistics for Clinical Practice

Indigenous Student Success Cohort

Indigenous Student Success Cohort 0520 - Mathematical Reasoning and Application

Interdisciplinary Studies

Interdisciplinary Studies 3200 - Genetically Engineered Machines

Interdisciplinary Studies 3300/Neuroscience 3300 - Introduction to Robotics

**Kinesiology**

Kinesiology 1160 - Human Anatomy and Physiology I  
Kinesiology 1161 - Human Anatomy and Physiology II  
Kinesiology 2110 - Biophysical Perspectives  
Kinesiology 2200 - Research Methodologies  
Kinesiology 2600 - Functional Human Anatomy  
Kinesiology 2610 - Human Physiology  
Kinesiology 2650 - Functional Biomechanics  
Kinesiology 3200 - Movement Disorders  
Kinesiology 3350 - Recognition and Care of Athletic Injuries  
Kinesiology 3500 - Nutrition and Physical Activity  
Kinesiology 3610 - Exercise Physiology  
Kinesiology 3630 - Growth, Development and Aging  
Kinesiology 3650 - Biomechanics  
Kinesiology 3690 - Motor Control  
Kinesiology 4200 - Health and Physical Activity  
Kinesiology 4300 - Work and Physical Ergonomics  
Kinesiology 4550 - Advanced Biomechanics  
Kinesiology 4610 - Fitness and Lifestyle Assessment  
Kinesiology 4615 - Advanced Exercise Physiology  
Kinesiology 4660 - Bioinstrumentation  
\*Kinesiology 4900 - Interdisciplinary Research Dialogues

**Liberal Education**

Liberal Education 2100 - Quantitative Reasoning  
Liberal Education 2200 - Problems and Puzzles  
Liberal Education 3100 - History of Mathematics  
Liberal Education 3600/Archaeology 3600 - Human Evolution

**Logic - all courses****Management**

Management 2070/Economics 2070 - Operations and Quantitative Management

**Mathematics - all courses****Neuroscience - all courses****Philosophy**

Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences  
Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter

**Physics - all courses****Psychology**

Psychology 2030 - Methods and Statistics B  
Psychology 2330 - Learning and Cognition  
Psychology 2700 - Behaviour and Evolution  
Psychology 3360 - Sensation and Perception  
\*Psychology 3400 - Advanced Research Design and Data Analysis  
Psychology 3450/Health Sciences 3450 - Applied Statistics for Clinical Practice  
Psychology 3525 - Hormones and Behaviour  
Psychology 3535 - Drugs and Behaviour  
\*Psychology 3760 - Animal Communication  
\*Psychology 3770 - Primate Lives and Human Cognitive Evolution  
Psychology 3780 - Animal and Human Personalities  
Psychology 3790 - Human Behavioural Ecology  
Psychology 4220 - The Psychology of Choice  
\*Psychology 4550 - Abnormal Psychology (Series)

**Remote Sensing - all courses****Statistics - all courses**

# FACULTY OF ARTS AND SCIENCE

<b>1. PHILOSOPHY AND PROGRAMS</b> .....	<b>89</b>	<b>16. MAJORS</b> .....	<b>96</b>
<b>2. ADVISING AND INFORMATION</b> .....	<b>89</b>	a. Agricultural Biotechnology (B.Sc.) .....	96
a. Dean of Arts and Science .....	89	b. Agricultural Studies (B.A.) .....	97
b. Academic Advisors .....	89	c. Agricultural Studies (B.Sc.) .....	99
c. Department Advisors .....	89	d. Anthropology (B.A.) .....	101
<b>3. ADMISSION</b> .....	<b>89</b>	e. Applied Statistics (B.Sc.) .....	101
a. General Information .....	89	f. Archaeology (B.A.) .....	103
b. Readmission after an Absence from the Faculty of Arts and Science .....	89	g. Archaeology and Geography (B.Sc.) .....	103
<b>4. ACADEMIC STANDARDS</b> .....	<b>90</b>	h. Art (B.A.) .....	104
a. Probation .....	90	i. Biochemistry (B.Sc.) .....	104
b. Required Withdrawal - Academic Indices ...	90	j. Biological Sciences (B.Sc.) .....	105
c. Required Withdrawal - Terms on Probation .	90	k. Canadian Studies (B.A.) .....	108
<b>5. INSTITUTIONAL HONOURS</b> .....	<b>90</b>	l. Chemistry (B.Sc.) .....	109
a. Dean's Honour List .....	90	m. Computer Science (B.Sc.) .....	110
b. Standards for Distinction and Great Distinction .....	90	n. Computer Science and Geographical Information Science (B.Sc.) .....	111
<b>6. VISITING STUDENT AUTHORIZATION</b> .....	<b>91</b>	o. Dramatic Arts (B.A.) .....	111
<b>7. ARTS AND SCIENCE DISCIPLINES</b> .....	<b>91</b>	p. Economics (B.A.) .....	112
<b>8. APPLIED STUDIES AND CO-OPERATIVE EDUCATION</b> .....	<b>91</b>	q. English (B.A.) .....	112
<b>9. INDEPENDENT STUDY</b> .....	<b>91</b>	r. Environmental Science (B.Sc.) .....	113
<b>10. TOPICS COURSES</b> .....	<b>92</b>	s. French (B.A.) .....	115
<b>11. CROSS-LISTED COURSES</b> .....	<b>92</b>	t. French/Spanish (B.A.) .....	116
<b>12. UNDERGRADUATE THESIS COURSES (‘HONOURS THESIS’ DESIGNATION)</b> .....	<b>92</b>	u. General Major in the Humanities (B.A.) ....	116
a. Prerequisites .....	93	v. General Major in the Sciences (B.Sc.) .....	117
b. Supervisory Committee .....	93	w. General Major in the Social Sciences (B.A.) .	117
c. Initial Approval .....	93	x. Geography (B.A.) .....	118
d. Final Assessment .....	94	y. Geography (B.Sc.) .....	119
e. Eligibility for ‘Honours Thesis’ Designation ..	94	z. History (B.A.) .....	120
<b>13. BACHELOR OF ARTS (B.A.)</b> .....	<b>94</b>	aa. Indigenous Studies (B.A.) .....	121
a. General Requirements .....	94	ab. Kinesiology (B.A.) .....	121
b. Major Requirements .....	94	ac. Kinesiology (B.Sc.) .....	122
<b>14. BACHELOR OF SCIENCE (B.Sc.)</b> .....	<b>95</b>	ad. Mathematics (B.Sc.) .....	122
a. General Requirements .....	95	ae. Music (B.A.) .....	123
b. Major Requirements .....	95	af. Neuroscience (B.Sc.) .....	123
<b>15. BACHELOR OF ARTS AND SCIENCE (BASc.)</b> ..	<b>95</b>	ag. Philosophy (B.A.) .....	125
a. General Requirements .....	95	ah. Physics (B.Sc.) .....	125
b. Major Requirements .....	96	ai. Political Science (B.A.) .....	127
		aj. Psychology (B.A.) .....	127
		ak. Psychology (B.Sc.) .....	129
		al. Religious Studies (B.A.) .....	130
		am. Remote Sensing (B.Sc.) .....	131
		an. Sociology (B.A.) .....	132
		ao. Urban and Regional Studies (B.A.) .....	133
		ap. Women and Gender Studies (B.A.) .....	134
		aq. Double Majors .....	134
		ar. Individual Multidisciplinary Majors. ....	135
		<b>17. MINORS</b> .....	<b>135</b>



<b>18. CONCENTRATIONS .....</b>	<b>135</b>	<b>23. INDIGENOUS STUDENT SUCCESS COHORT .....</b>	<b>142</b>
<b>19. COMBINED DEGREES .....</b>	<b>135</b>	<b>24. NURSING PREPARATION PROGRAM .....</b>	<b>143</b>
<b>20. B.A., B.Sc. OR BASc. AFTER AN APPROVED DEGREE .....</b>	<b>136</b>	<b>25. PRE-PROFESSIONAL TRANSFER PROGRAM IN ENGINEERING .....</b>	<b>143</b>
a. General Requirements .....	136	a. Engineering (University of Alberta) .....	143
b. Major Requirements .....	136	<b>26. PROFESSIONAL TRANSFER PROGRAMS ....</b>	<b>143</b>
<b>21. B.A. OR B.Sc. AFTER COMPLETION OF A PROFESSIONAL DEGREE .....</b>	<b>136</b>	a. Dentistry (University of Alberta) .....	143
<b>22. POST-DIPLOMA DEGREE PROGRAMS .....</b>	<b>136</b>	b. Journalism (University of Regina) .....	143
a. Post-Diploma Bachelor of Arts (B.A.) in Agricultural Studies .....	136	c. Law (University of Alberta or University of Calgary) .....	144
b. Post-Diploma Bachelor of Science (B.Sc.) in Agricultural Studies .....	138	d. Medicine (University of Alberta or University of Calgary) .....	144
c. Post-Diploma Bachelor of Science (B.Sc.) in Computer Science .....	139	e. Social Work (University of Calgary) .....	144
d. Post-Diploma Bachelor of Science (B.Sc.) in Environmental Science .....	140	f. Veterinary Medicine (University of Calgary) .....	145
e. Post-Diploma Bachelor of Science (B.Sc.) in Geography, With a Concentration in Geographical Information Science .....	141	<b>27. CERTIFICATE IN ARTS AND SCIENCE .....</b>	<b>145</b>

## I. PHILOSOPHY AND PROGRAMS

The Faculty of Arts and Science offers instruction in a broad range of subjects, from the humanities and social sciences to the natural and mathematical sciences. The Faculty of Arts and Science commits itself to the development of well-educated persons through the pillars of liberal education, including breadth and connections across disciplines, critical thinking skills, and engaged citizenship at all levels. We emphasize the skills developed by a liberal education, and a balance of breadth of general intellectual background with depth of knowledge in a particular area.

The Faculty of Arts and Science offers three baccalaureate (i.e. bachelor's) degrees -- Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), and Bachelor of Arts and Science (BASc.) -- and one certificate in the following configurations:

- A 40-course (120.0 credit hour) program leading to the Bachelor of Arts (B.A.)
- A 40-course (120.0 credit hour) program leading to the Bachelor of Science (B.Sc.)
- A 40-course (120.0 credit hour) program leading to the Bachelor of Arts and Science (BASc.)
- A modified 20-course (60.0 credit hour) post-diploma program leading to the Bachelor of Arts (B.A.) or Bachelor of Science (B.Sc.)
- A modified 25-course (75.0 credit hour) or 30-course (90.0 credit hour) program leading to the Bachelor of Arts (B.A.) or Bachelor of Science (B.Sc.) portion of a combined degrees program. Neither degree is granted until requirements for the entire combined degrees program are completed. See **Combined Degrees**.
- A modified minimum 20-course (60.0 credit hour) program leading to the B.A., B.Sc., or BASc. as a second degree
- A 10-course (30.0 credit hour) program leading to the Certificate in Arts and Science

## 2. ADVISING AND INFORMATION

Academic advising in Arts and Science takes account of the variety of educational goals for which the Faculty wholly or partly provides and affiliates with other student services in the University.

### a. Dean of Arts and Science

As well as being the administrative head of the Faculty of Arts and Science, the Dean of Arts and Science has direct responsibility for all academic programs and all years of study in Arts and Science. Appeals and issues of interpretation for students in Arts and Science should be directed to the Office of the Dean of Arts and Science.

### b. Academic Advisors

Academic advising for the Faculty of Arts and Science is the responsibility of academic advisors, located in the Arts and Science Student Program Services Office (M2102; artsci.advising@uleth.ca; 403-329-5106).

Students may consult academic advisors for assistance with a variety of academic concerns, including program planning, declaration of majors, General majors, readmission, applications for Incompletes or Withdrawals with Cause, authorized study at another university, and pre-professional transfer programs.

### c. Department Advisors

Each Arts and Science department and program designates an advisor who knows in detail department courses, prerequisites and course schedules, as well as all aspects of the department's major program. In some departments, the Chair serves as Department Advisor.

Although the minimum requirements for each major program are fully detailed in this Calendar, students should plan their major programs in consultation with the Department Advisor in order to ensure meeting their own individual aims. These aims may include graduate school or professional school admission and vocational goals.

However, department advisors have no authority regarding degree, program or major requirements as set out in this Calendar. For information on such matters, students should consult academic advisors.

## 3. ADMISSION

### a. General Information

Applicants to Faculty of Arts and Science programs are advised to refer to **Admission (p. 21)** and [www.ulethbridge.ca/ross/admissions/undergrad](http://www.ulethbridge.ca/ross/admissions/undergrad) for general admission requirements, additional admission requirements, policies, and application deadlines.

Enrolment in programs offered by the Faculty of Arts and Science is limited, based on program and major, and fulfilment of the minimum admission requirements does not guarantee admission. The Faculty of Arts and Science reserves the right to select applicants for admission and readmission based on admission average.

### b. Readmission after an Absence from the Faculty of Arts and Science

#### 1. Good Academic Standing or Academic Probation

- a. Students who left the Faculty of Arts and Science in good standing or on academic probation and are seeking readmission after an absence of up to two years are eligible to return to their previous program of studies regardless of current admission requirements. Such students will be governed by the program requirements of the Calendar in effect at the time of readmission (see **Admission, Year of the Calendar, p. 34**).
- b. Students who left the Faculty of Arts and Science in good standing or on academic probation and are seeking readmission after an absence of more than two years, without completing transferable post-secondary courses, must meet current program-specific admission requirements.
- c. Students who have completed transferable post-secondary courses during an absence must meet current admission requirements to be eligible for readmission (see **Admission, Post-Secondary Admission Route, p. 25**).

## 2. Readmission after Required Withdrawal

Students dismissed for academic reasons will not be granted readmission until after the lapse of one year. Applicants for readmission after required withdrawal must complete no less than eight transferable courses (24.0 credit hours) with an overall GPA of 2.00 or higher (on the University of Lethbridge 4.00 scale), after being required to withdraw, to be eligible for readmission. Students required to withdraw twice are not eligible for readmission without approval from the Faculty.

*Tabula Rasa* will be granted to all first-degree University of Lethbridge students upon readmission after required withdrawal for unsatisfactory performance. For details regarding the granting of *Tabula Rasa*, see **Admission, Readmission after Required Withdrawal (p. 28)**.

Students readmitted after required withdrawal are readmitted on condition of academic probation and limited to registration in a maximum of four courses (12.0 credit hours).

## 4. ACADEMIC STANDARDS

For graduation, students must attain a minimum cumulative GPA of 2.00 on a minimum of 20 courses taken at the University of Lethbridge for credit toward the degree.

Students who fall within the cumulative GPA ranges below will be in good standing, on academic probation, or required to withdraw respectively.

Number of Completed Courses (includes transfer courses)	Good Standing	Academic Probation	Required Withdrawal
0-5	1.70 or higher	0.00-1.69	-
6-10	1.70 or higher	1.50-1.69	Below 1.50
11-20	1.85 or higher	1.70-1.84	Below 1.70
21-30	2.00 or higher	1.85-1.99	Below 1.85
31-40 (or more)	2.00 or higher	-	Below 2.00

The number of completed courses is based on a standard 3.0 credit hour course. For the purposes of these regulations, students in post-diploma degree programs will be considered to have 20 courses completed at the beginning of the program. Students in a second degree program must maintain a minimum GPA of 2.00 at all times.

### a. Probation

Students whose cumulative GPA falls within the levels identified above are considered to be on academic probation. Students on academic probation may not register in more than four courses in a term.

### b. Required Withdrawal - Academic Indices

Students whose cumulative GPA, at the end of the spring term, falls within the levels identified above are required to withdraw from the University. Students who have taken fewer than six courses (18.0 credit hours) at the University of Lethbridge will not be required to withdraw.

### c. Required Withdrawal - Terms on Probation

Students who, at the end of the spring term, have remained on academic probation for two or more consecutive terms are required to withdraw from the University.

Students who have taken fewer than six courses (18.0 credit hours) at the University of Lethbridge will not be required to withdraw.

**Note:** The required withdrawal legislation, as indicated in **b.** and **c.**, applies both to students registered in the fall term who did not continue in the spring term and to students registered in the spring term. All students' records are reviewed once per year, at the end of the spring term.

## 5. INSTITUTIONAL HONOURS

### a. Dean's Honour List

Students with outstanding academic performance are recognized on the Dean's Honour List. The list is compiled twice yearly at the end of the fall and spring terms.

Students enrolled in an Arts and Science program completing four or more graded courses (12.0 credit hours) in one term must achieve a GPA of 3.75 or higher on these courses to qualify. Of the four or more courses noted above, a minimum of three courses (9.0 credit hours) must be offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education.

### b. Standards for Distinction and Great Distinction

Students who have displayed outstanding academic performance during their undergraduate degree programs are awarded their degrees 'With Distinction' or 'With Great Distinction'.

Students with an award GPA of 3.50 to 3.74 are awarded their degree 'With Distinction.' Students with an award GPA of 3.75 or higher are awarded their degree 'With Great Distinction'.

For purposes of awarding degrees 'With Distinction' or 'With Great Distinction,' the Faculty of Arts and Science determines an award GPA by factoring into the University of Lethbridge cumulative GPA, actual grades on transfer courses, and 'A+' grades as 4.30 grade points.

## 6. VISITING STUDENT AUTHORIZATION

An Application for Visiting Student Authorization form must be submitted by the associated deadlines and approved prior to commencement of studies elsewhere.

- Permission may be granted to simultaneously enrol at another institution and at the University of Lethbridge during the Summer term only.
- Permission will not be granted to enrol in courses simultaneously at another institution and at the University of Lethbridge during a Fall or Spring term, except when there are significant extenuating circumstances beyond the control of the student, as approved by the Dean.

For further information, please see **Admission, Transfer Policies (p. 32)** and **Registration, Visiting and Exchange Students (p. 39)**.

## 7. ARTS AND SCIENCE DISCIPLINES

A discipline is a branch of knowledge or learning. Disciplines are indicated in the Calendar by distinct course titles and course subject abbreviations. The Faculty of Arts and Science (in conjunction with the Faculty of Fine Arts and the School of Liberal Education) offers courses at the undergraduate level in the following disciplines:

Agricultural Biotechnology (AGBT)	Environmental Science (ENVS)	Modern Languages (MODL)
Agricultural Studies (AGST)	Fine Arts (FA)*	Museum Studies (MSTU)*
Anthropology (ANTH)	French (FREN)	Music (MUSI)*
Applied Studies (APST)	Geography (GEOG)	Music Ensemble Activity (MUSE)*
Archaeology (ARKY)	German (GERM)	Music Studio (MUSS)*
Art (ART)*	Greek (GREK)	Neuroscience (NEUR)
Art History (ARHI)*	Hebrew (HEBR)	New Media (NMED)*
Asian Studies (ASIA)	Hispanic Studies (HPST)	Philosophy (PHIL)
Astronomy (ASTR)	History (HIST)	Physical Activity (PHAC)
Biochemistry (BCHM)	Indigenous Student Success Cohort (ISSC)	Physics (PHYS)
Biology (BIOL)	Indigenous Studies (INDG)	Political Science (POLI)
Blackfoot (BKFT)	Interdisciplinary Studies (IDST)	Psychology (PSYC)
Canadian Studies (CNST)	Japanese (JPNS)	Religious Studies (RELS)
Chemistry (CHEM)	Japanese Studies (JPST)	Remote Sensing (RMTS)
Cinema (CINE)*	Kinesiology (KNES)	Sociology (SOCI)
Computer Science (CPSC)	Latin (LATI)	Spanish (SPAN)
Cree (CREE)	Liberal Education (LBED)*	Statistics (STAT)
Drama (DRAM)*	Library Science (LBSC)	Urban and Regional Studies (UBRE)
Economics (ECON)	Linguistics (LING)	Women and Gender Studies (WGST)
Engineering (ENGG)	Logic (LOGI)	Writing (WRIT)
English (ENGL)	Mathematics (MATH)	

**Note:** Disciplines indicated by an asterisk (\*) are offered by the Faculty of Fine Arts or the School of Liberal Education. For all degree regulations, disciplines offered by the Faculty of Fine Arts or the School of Liberal Education are considered in the same way as Arts and Science disciplines.

## 8. APPLIED STUDIES AND CO-OPERATIVE EDUCATION

Faculty of Arts and Science students may be eligible to enhance their programs through participation in Applied Studies courses and/or Co-operative Education.

See **Applied Studies and Co-operative Education (p. 339)** for more details. Further information may be obtained from the Career Bridge office (AH151; 403-329-2000; career.bridge@uleth.ca; www.ulethbridge.ca/career-bridge).

## 9. INDEPENDENT STUDY

An Independent Study is a course for which credit is earned through individual study under the supervision of an instructor. Independent Study may be taken for credit inside or outside of the student's major subject or in an interdisciplinary mode. Some major programs require an Independent Study component. Each Arts and Science program has a limit on the number of Independent Study courses that may be completed for credit. Please refer to the appropriate entry later in this section and **Academic Regulations, Exceeding Course Limits (p. 56)**. Independent Study numbers 1990, 2990, 3990 and 4990 indicate the level of advancement.

Independent Study courses may take a variety of forms including library research, laboratory research projects or field study. Since Independent Study is intended to expand a student's program beyond the limits of the regular curriculum, it may not be used to duplicate course offerings.

Admission to Independent Study is achieved through consent of the instructor, who agrees to guide the study, and by approval of the department and the Dean. Enrolment may be for a regular term or during a summer session. Credit for Independent Study is at the discretion of the department, upon recommendation of the instructor. Grades are due at the end of the term of registration, as for regular courses. For further information, students should consult the department or faculty member under whom they wish to pursue an Independent Study.

## 10. TOPICS COURSES

Topics courses (numbered 1850, 2850, 3850, or 4850) may be offered in a discipline. The subject matter of Topics courses varies with each offering, with different offerings indicated by distinct titles. Students may take more than one offering of a Topics course for credit if the offerings are distinct (i.e. if each offering taken has a different title).

Topics courses are offered on an irregular basis and do not appear in the **Course Catalogue** of the Calendar; Topics courses are listed in the current term Timetable. Contact hours for Topics courses may vary according to the nature of the course and will appear in the Timetable entry.

Prerequisites/corequisites/recommended background for individual offerings will appear in the Timetable entry and will normally specify one or more of the following: level-appropriate courses in the discipline/related disciplines, year of standing, appropriate majors, admission to a University of Lethbridge program, or some other special requirement (e.g. an interview).

## 11. CROSS-LISTED COURSES

There are two types of cross-listed courses available at the University of Lethbridge: courses cross-listed between two different Faculties or Schools, and courses cross-listed between two different disciplines within a Faculty or School. Cross-listed courses appear in the Calendar and will appear on the student's academic records in the dual form, for example, Economics 2070/Management 2070.

Courses cross-listed between Faculties or Schools count within a B.A., B.Sc., or BASc. program as the Arts and Science discipline. For example, Economics 2070/Management 2070 will be used as Economics 2070 for all regulations and requirements relating to the B.A., B.Sc., and BASc.

Courses cross-listed between two disciplines within the Faculty of Arts and Science may be used to meet major/minor requirements in either discipline, but not both (in the case of a double major or major/minor combination). However, cross-listed courses will count toward both disciplines with respect to any limits that exist within a student's program (including disciplinary course limits and Liberal Education List Requirements). For example, Asian Studies 3150/Women and Gender Studies 3150 will count toward the limit on the number of disciplinary courses allowed in both Asian Studies and Women and Gender Studies. A student may not assign a cross-listed course to one discipline or the other in order to avoid exceeding a limit.

## 12. UNDERGRADUATE THESIS COURSES ('HONOURS THESIS' DESIGNATION)

In some disciplines, qualified students in the Bachelor of Arts, Bachelor of Science, or Bachelor of Arts and Science programs, either as a first degree or second degree, may elect to complete an Undergraduate Thesis course (6.0 credit hours) linked to their declared major. Students who complete all requirements and satisfy the academic standards required for the Undergraduate Thesis course for their declared major are eligible to receive the 'Honours Thesis' designation on their official transcript and degree parchment.

Students completing a combined degrees program or post-diploma program may not count the 6.0 credit hour Undergraduate Thesis towards the requirements of their chosen major or degree program, although they are eligible to receive the 'Honours Thesis' designation by completing this course in addition to the minimum requirements for their chosen major and degree program.

Undergraduate Thesis courses are numbered 4995 and are available for Arts and Science majors as indicated below:

Arts and Science Major	Undergraduate Thesis Course
Agricultural Biotechnology	Agricultural Biotechnology 4995
Agricultural Studies (B.A. or B.Sc.)	Agricultural Studies 4995
Anthropology	Anthropology 4995
Applied Statistics	Statistics 4995
Archaeology (B.A.)	Archaeology 4995
Archaeology and Geography (B.Sc.)	Archaeology 4995 or Geography 4995
Art	Art 4995, Art History 4995, or Museum Studies 4995
Biochemistry	Biochemistry 4995
Biological Sciences	Biology 4995
Canadian Studies	Canadian Studies 4995
Chemistry	Chemistry 4995
Computer Science	Computer Science 4995
Computer Science and Geographical Information Science	Computer Science 4995 or Geography 4995
Dramatic Arts	Not currently available
Economics	Economics 4995

Arts and Science Major	Undergraduate Thesis Course
English	English 4995
Environmental Science	Environmental Science 4995
French	French 4995
French/Spanish	French 4995 or Spanish 4995
General Major in the Humanities	Not available
General Major in the Sciences	Not available
General Major in the Social Sciences	Not available
Geography (B.A. or B.Sc.)	Geography 4995
History	History 4995
Indigenous Studies	Indigenous Studies 4995
Kinesiology (B.A. or B.Sc.)	Kinesiology 4995
Mathematics	Mathematics 4995
Music	Not currently available
Neuroscience	Neuroscience 4995
Philosophy	Philosophy 4995 or Logic 4995
Physics	Physics 4995
Political Science	Political Science 4995
Psychology (B.A. or B.Sc.)	Psychology 4995
Religious Studies	Religious Studies 4995
Remote Sensing	Remote Sensing 4995
Sociology	Sociology 4995
Urban and Regional Studies	Urban and Regional Studies 4995
Women and Gender Studies	Women and Gender Studies 4995

(See **Course Catalogue**, p. 343 for details on approved courses.)

**a. Prerequisites**

Prospective 'Honours Thesis' candidates must meet the following prerequisites:

1. Fourth-year standing (a minimum of 90.0 credit hours).<sup>1</sup>
2. A cumulative GPA of 3.30 (or higher if the department/unit requires).
3. Any further prerequisite(s) as determined by the department/unit (see **Course Catalogue**, p. 343).

<sup>1</sup> Students enrolled in a second degree program must have completed at least ten courses (a minimum of 30.0 credit hours) at the University of Lethbridge within the second degree program to meet this requirement.

**b. Supervisory Committee**

For each prospective 'Honours Thesis' candidate, a Supervisory Committee will be established. The Supervisory Committee, approved by the department offering the Undergraduate Thesis course, will consist of the Thesis Supervisor from the department and a minimum of one other reader, who may be from outside the department.

**Note:** For majors not housed in a department, the Supervisory Committee composition shall be proposed by the Program Coordinator, subject to endorsement by the Dean.

**c. Initial Approval**

1. The prospective student must present a *Thesis Proposal* to be approved by the Supervisory Committee prior to registration for the course.
2. The Supervisory Committee will establish at the outset the weighting of the written and oral components of the Thesis, as well as the procedure for determining the final grade.
3. Subsequent changes to the approved Thesis Proposal must be approved by the Supervisory Committee.
4. The prospective student must submit an unofficial transcript for review by the Supervisory Committee.
5. Admission to the course is achieved through approval of the Supervisory Committee and the department, or Program Coordinator, endorsed by the Dean whose signature indicates that the necessary resources are available for the project.
6. The student must register for the Undergraduate Thesis course by the last day for course add/drop for the given fall/spring term or summer session.

**d. Final Assessment**

The final assessment for the Undergraduate Thesis is based on two criteria:

**1. Written Component**

- a. The Undergraduate Thesis must be a sustained piece of supervised research demonstrating a superior level of academic ability on a matter approved by the Supervisory Committee prior to registration in the course.
- b. The Thesis should be of high quality and made publicly available by the department.

**2. Oral Component**

The student will be required to make a formal oral presentation demonstrating the ability to articulate clearly the nature of the project undertaken, the research methodology and the results of the project. This component is a demonstration of the student's competence in oral communication and not necessarily an oral defence of the Thesis, unless so specified by the department.

**e. Eligibility for 'Honours Thesis' Designation**

Students are eligible to receive the 'Honours Thesis' designation on their official transcript and degree parchment only if they achieve a minimum grade of 'B+' (3.30 or higher) for the Undergraduate Thesis course, and have satisfactorily completed the required oral component. Students who achieve grades between 'D' and 'B', inclusive, and/or do not complete the oral component will retain credit for the equivalent of two courses (6.0 credit hours) but will not be eligible for the 'Honours Thesis' designation.

Students may not repeat an Undergraduate Thesis course and may not complete more than one Undergraduate Thesis course per degree.

Inquiries about the availability of the 'Honours Thesis' option should be directed to the respective department/unit. Please refer to **Academic Regulations, Honours Thesis Designation (p. 57)** for more information on the 'Honours Thesis' designation.

**13. BACHELOR OF ARTS (B.A.)****a. General Requirements**

1. Completion of at least 40 courses (120.0 credit hours) with a GPA of at least 2.00.
2. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
3. Not more than 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.
4. Completion of at least 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE).
5. Not more than five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.
6. Not more than five Disciplinary Credit Applied Studies courses (15.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
7. Not more than 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree.  
**Note:** Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).
8. Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).
9. Not more than six courses (18.0 credit hours) from disciplines offered outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree. Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.
10. Residence requirement: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level.

(See **Academic Regulations, Exceeding Course Limits, p. 56**.)

**b. Major Requirements**

For the Bachelor of Arts, a major program must be chosen and completed from among the following majors: Agricultural Studies, Anthropology, Archaeology, Art, Canadian Studies, Dramatic Arts, Economics, English, French, French/Spanish, General Major in the Humanities, General Major in the Social Sciences, Geography, History, Indigenous Studies, Kinesiology, Music, Philosophy, Political Science, Psychology, Religious Studies, Sociology, Urban and Regional Studies, Women and Gender Studies, or an individual multidisciplinary major program.

Residence requirement: at least half of the courses required in the major must be completed at the University of Lethbridge.

#### 14. BACHELOR OF SCIENCE (B.Sc.)

##### a. General Requirements

1. Completion of at least 40 courses (120.0 credit hours) with a GPA of at least 2.00.
2. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
3. Not more than 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.
4. Completion of at least 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE).
5. Not more than five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.
6. Not more than five Disciplinary Credit Applied Studies courses (15.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
7. Not more than 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree.  
**Note:** Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).
8. Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).
9. Not more than six courses (18.0 credit hours) from disciplines offered outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree. Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.
10. Residence requirement: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level.

(See **Academic Regulations, Exceeding Course Limits, p. 56**.)

##### b. Major Requirements

For the Bachelor of Science, a major program must be chosen and completed from among the following majors: Agricultural Biotechnology, Agricultural Studies, Applied Statistics, Archaeology and Geography, Biochemistry, Biological Sciences, Chemistry, Computer Science, Computer Science and Geographical Information Science, Environmental Science, General Major in the Sciences, Geography, Kinesiology, Mathematics, Neuroscience, Physics, Psychology, Remote Sensing, or an individual multidisciplinary major program.

Residence requirement: at least half of the courses required in the major must be completed at the University of Lethbridge.

#### 15. BACHELOR OF ARTS AND SCIENCE (BASc.)

##### a. General Requirements

1. Completion of at least 40 courses (120.0 credit hours) with a GPA of at least 2.00.
2. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
3. Not more than 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.
4. Completion of at least 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE).
5. Not more than five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.
6. Not more than five Disciplinary Credit Applied Studies courses (15.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
7. Not more than 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree.  
**Note:** Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).
8. Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).
9. Not more than six courses (18.0 credit hours) from disciplines offered outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree. Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.
10. Residence requirement: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level.

(See **Academic Regulations, Exceeding Course Limits, p. 56**.)



**b. Major Requirements**

For the Bachelor of Arts and Science, students must complete two majors: an Arts major chosen from the list of eligible majors below, and a Science major chosen from the list of eligible majors below.

Eligible Arts Majors		Eligible Science Majors
Anthropology	Indigenous Studies	Biological Sciences
Art	Kinesiology	Chemistry
Dramatic Arts	Music	Computer Science
Economics	Philosophy	Geography
English	Political Science	Kinesiology
French	Psychology	Mathematics
French/Spanish	Religious Studies	Physics
Geography	Sociology	Psychology
History	Women and Gender Studies	

**Note:** Majors in Geography, Kinesiology, and Psychology may be used as either the Arts major or the Science major but not both.

Students must complete the minimum course requirements for both majors. Students may not double count courses in fulfilling requirements for their two majors.

In some cases, depending on the choice of majors, more than 40 courses (120.0 credit hours) may be required to satisfy all degree and major requirements.

Residence requirement: at least half of the courses required in each major must be completed at the University of Lethbridge.

**16. MAJORS**

The section on majors lists all majors available for the various degree programs offered by the Faculty of Arts and Science. Majors are listed alphabetically, and each entry provides pertinent information about the major and outlines the requirements. Further details may be obtained from Department Chairs, Program Coordinators, academic advising, or the Arts and Science Dean. Each entry also provides a web address for each program.

**Sample Sequencing Plans**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**a. Agricultural Biotechnology (B.Sc.)**

Departments: Biological Sciences, Chemistry and Biochemistry, and Economics.

The major in Agricultural Biotechnology provides background for a diverse range of activities such as graduate study in the life sciences and career development within the agricultural industry; the program is often taken as a means of completing pre-professional requirements leading to a veterinary degree.

Please refer to the program website ([www.ulethbridge.ca/artsci/agricultural-biotechnology](http://www.ulethbridge.ca/artsci/agricultural-biotechnology)) for more information.

Number of courses required for the major: 23

**Required Courses:**

Agricultural Studies 1000 - The Evolution of Agriculture  
 Biochemistry 2000 - Introductory Biochemistry  
 Biology 1010 - Cellular Basis of Life  
 Biology 1020 - Diversity of Life  
 Biology 2000 - Principles of Genetics  
 Biology 2150 - Biostatistics  
 Biology 2200 - Principles of Ecology  
 Biology 2300 - Cell Biology  
 Biology 3000 - Gene Expression and Regulation  
 Biology 3005 - Genomes  
 Biology 3110 - Cell Signalling  
 Biology 3210 - Experimental Methods in Molecular and Cellular Biology  
 Biology 3400 - Principles of Microbiology  
 Chemistry 1000 - General Chemistry I  
 Chemistry 2000 - General Chemistry II  
 Chemistry 2500 - Organic Chemistry I  
 Economics 1010 - Introduction to Microeconomics  
 Economics 3300 - Agricultural Policy I

**One of:**

Biology 3420 - Animal Physiology  
Biology 3460 - Plant Physiology

**One of:**

Biology 4100 - Advances in Biotechnology  
Biology 4130 - Medical Genomics

**One of:**

Economics 2150 - Economics of Agricultural Issues  
Economics 2350 - Economics of Agricultural Markets I

**One of:**

Mathematics 1410 - Elementary Linear Algebra  
Mathematics 1560 - Calculus I  
Mathematics 1565 - Accelerated Calculus I

**One of:**

Physics 1000 - Introduction to Physics I  
Physics 1050 - Introduction to Biophysics

**Recommended courses:****One of:**

Neuroscience 2610 - Principles of Brain Structure and Function  
Neuroscience 2620 - Principles of Behavioural Neuroscience

Neuroscience 3600 - Fundamental Neurobiology  
Biology 4155 - Cannabis and Health  
Biology 4570 - Plant Breeding and Genetics

**Notes:**

A student who successfully completes this degree program and major may apply to the Alberta Institute of Agrologists (AIA) to be registered as a Professional Agrologist within Alberta. Students should contact the Coordinator of Agricultural Biotechnology early in the program for further information.

**Concentration: Agricultural Business (optional)**

Agricultural Biotechnology majors in the B.Sc. degree program may declare a Concentration in Agricultural Business.

**Required Courses:**

Accounting 2100 - Introductory Accounting  
Marketing 2020 - Marketing

**Three of:**

Economics 3030 - Managerial Economics  
Economics 3780/Management 3780 - Principles of Industrial Organization  
<sup>1</sup>Human Resources and Labour Relations 3050 - Human Resource Management  
Management 3010 - Business Law  
Political Science 2210 - Canadian Politics and Government

**Notes:**

<sup>1</sup>Corequisite: Management 1000

For students who complete all requirements, the Concentration in Agricultural Business will be acknowledged on the official academic transcript.

**b. Agricultural Studies (B.A.)**

Department: Economics

Agricultural Studies is a broad multidisciplinary program encompassing a purposeful blend of the physical sciences, economics, and other social sciences. The aim of the program is to improve the understanding and practice of activities that transform natural capital, plants, and animals to satisfy myriad human wants. The curriculum enables aspiring agriculturalists to explore and learn about the physical and economic interrelationships between agricultural production, marketing and trade, nutrient management, water, grazing, rangeland, and riparian management. The program provides the foundation for a wide variety of career alternatives related to primary production, input supply services including banking, commodity marketing, and processing, and agri-food retailing.

Please refer to the program website ([www.ulethbridge.ca/artsci/agricultural-studies](http://www.ulethbridge.ca/artsci/agricultural-studies)) for more information.

Number of courses required for the major: 20

**Required core (10 courses):**

Agricultural Studies 1000 - The Evolution of Agriculture  
Agricultural Studies 3300 - Modelling of Agricultural Systems  
Agricultural Studies 4000 - Seminar in Agricultural Issues  
Agricultural Studies 4300 - Advanced Modelling of Agricultural Systems  
Biology 1020 - Diversity of Life

Economics 1010 - Introduction to Microeconomics  
 Geography 1200 - Introduction to Human Geography  
 Statistics 1770 - Introduction to Probability and Statistics

**One of:**

Philosophy 2001 - Introduction to Ethics  
 Philosophy 2236 - Environmental Philosophy

**One of:**

Anthropology 1000 - The Anthropological Perspective  
 Political Science 1000 - Introduction to Political Science  
 Sociology 1000 - Introduction to Sociology

**Subfield requirements (10 courses):**

Eight courses (24.0 credit hours) from either subfield list (1. or 2.) below

Two courses (6.0 credit hours) from the other subfield list below

Four of the subfield courses (12.0 credit hours) must be at the 3000/4000 level

Students choosing Agricultural Economics as their eight-course subfield must complete the Quantitative Methods requirement: Economics 2900. Students choosing Rural Sociology and Development as their eight-course subfield must complete the Research Methodology requirement: Sociology 2100

**1. Agricultural Economics**

Economics 1012 - Introduction to Macroeconomics  
 Economics 2150 - Economics of Agricultural Issues  
 Economics 2350 - Economics of Agricultural Markets I  
 Economics 2750 - Quantitative Methods in Economics  
 Economics 3010 - Intermediate Microeconomic Theory  
 Economics 3030 - Managerial Economics  
 Economics 3220 - Environmental Economics  
 Economics 3300 - Agricultural Policy I  
 Economics 3350 - Economics of Agricultural Markets II  
 Economics 4300 - Agricultural Policy II

**Quantitative Methods Requirement:**

Economics 2900 - Economics and Business Statistics

**2. Rural Sociology and Development**

Economics 2150 - Economics of Agricultural Issues  
 Economics 3300 - Agricultural Policy I  
 Economics 3800 - Economic Development  
 Economics 4300 - Agricultural Policy II  
 Geography 1000 - Introduction to Physical Geography  
 Geography 2210 - Spatial Organization of Economic Activity  
 Geography 2700 - Geographical Data and Analysis  
 Geography 3210 - Food Systems Analysis  
 Political Science 2210 - Canadian Politics and Government  
 Political Science 3260 - Canadian Public Policy  
 Political Science 3400 - Public Administration  
 Sociology 3110 - Survey Research  
 Sociology 3120 - Qualitative Research Methods

**Research Methodology Requirement:**

Sociology 2100 - Research Methodology

**Technical Studies Term (five courses)**

Students are required to complete a term of study at an approved college. The Technical Studies term counts as the equivalent of 15.0 credit hours at the University of Lethbridge (i.e., three unspecified 2000-level and two unspecified 3000-level Agricultural Studies courses).

The Technical Studies term should be taken after at least 20 university courses have been completed and prior to registration in the final 10 courses for the degree.

Students must have the college course selection approved by the Coordinator of Agricultural Studies. Further details are available from the Coordinator.

**Notes**

Courses which appear in both subfield lists may be counted in only one of the subfields. Students choosing Agricultural Economics as their eight-course subfield must choose two courses from the Rural Sociology and Development subfield which **are not** Economics courses.

Applied Studies, Independent Studies and Topics courses may be counted toward the subfield requirements provided they are (1) clearly related to one of the subfields and (2) approved by the Coordinator of Agricultural Studies.

Students may not receive credit for courses at the University of Lethbridge for which close equivalents have been taken at the college, and vice versa. Students must ensure that their course selection has been approved by the Coordinator of Agricultural Studies.

Students wishing to pursue graduate studies in Agricultural Economics should also include Economics 3012, Economics 4010, Economics 4012, and Mathematics 1560 in their programs.

A student who successfully completes this major may apply to the Alberta Institute of Agrologists (AIA) to be registered as a Professional Agrologist within Alberta. Students should contact the Coordinator of Agricultural Studies early in the program for further information.

### **Concentration: Agricultural Business (optional)**

Agricultural Studies majors in the B.A. degree program may declare a Concentration in Agricultural Business.

#### **Required Courses:**

Accounting 2100 - Introductory Accounting

Marketing 2020 - Marketing

#### **Three of:**

Economics 3030 - Managerial Economics

Economics 3780/Management 3780 - Principles of Industrial Organization

<sup>1</sup> Human Resources and Labour Relations 3050 - Human Resource Management

Management 3010 - Business Law

Political Science 2210 - Canadian Politics and Government

#### **Notes:**

<sup>1</sup> Corequisite: Management 1000

Students may not double count courses required for the Concentration in Agricultural Business in fulfilling requirements for subfields of the Major in Agricultural Studies. In such cases, students must select another option from the subfield list.

For students who complete all requirements, the Concentration in Agricultural Business will be acknowledged on the official academic transcript.

### **c. Agricultural Studies (B.Sc.)**

Departments: Biological Sciences, Chemistry and Biochemistry, Economics, and Geography and Environment

Agricultural Studies is a broad multidisciplinary program encompassing the physical sciences, economics, and other social sciences. The aim of the program is to improve the understanding and practice of activities that transform natural capital, plants, and animals to satisfy myriad human wants. The curriculum enables aspiring agriculturalists to explore and learn about the physical and economic interrelationships between agricultural production, marketing and trade, nutrient management, water, grazing, rangeland, and riparian management. The program provides the foundation for a wide variety of career alternatives related to primary production, input supply services including banking, commodity marketing, and processing, and agri-food retailing.

Please refer to the program website ([www.ulethbridge.ca/artsci/agricultural-studies](http://www.ulethbridge.ca/artsci/agricultural-studies)) for more information.

Number of courses required for the major: 20

#### **Required core (12 courses):**

Agricultural Studies 1000 - The Evolution of Agriculture

Agricultural Studies 3300 - Modelling of Agricultural Systems

Agricultural Studies 4000 - Seminar in Agricultural Issues

Agricultural Studies 4300 - Advanced Modelling of Agricultural Systems

Biology 1010 - Cellular Basis of Life

Biology 1020 - Diversity of Life

Biology 2000 - Principles of Genetics

Chemistry 1110 - Chemistry for Life Sciences I

Economics 1010 - Introduction to Microeconomics

Geography 1000 - Introduction to Physical Geography

Statistics 1770 - Introduction to Probability and Statistics

#### **One of:**

Computer Science 1620 - Fundamentals of Programming I

Mathematics 1010 - Introduction to Calculus

Mathematics 1560 - Calculus I

Mathematics 1565 - Accelerated Calculus I

Physics 1050 - Introduction to Biophysics

#### **Subfield requirements (eight courses):**

Six courses (18.0 credit hours) from either subfield list (1. or 2.) below

Two courses (6.0 credit hours) from the other subfield list below

Four of the subfield courses (12.0 credit hours) must be at the 3000/4000 level

**1. Biological Sciences**

Biology 2150 - Biostatistics  
Biology 2200 - Principles of Ecology  
<sup>1</sup> Biology 2300 - Cell Biology  
Biology 3420 - Animal Physiology  
Biology 3460 - Plant Physiology  
Biology 3520 - Invertebrate Zoology  
Biology 3530 - Vertebrate Zoology  
Biology 3560 - Integrative Plant Biology  
Biology 3700 - Ecosystem Ecology  
Biology 3710 - Population Biology  
Biology 3720 - Community Ecology  
Biology 4570 - Plant Breeding and Genetics  
Chemistry 2120 - Chemistry for Life Sciences II  
Environmental Science 2000 - Fundamentals of Environmental Science

**2. Geography**

Environmental Science 2000 - Fundamentals of Environmental Science  
Geography 2030 - Geomorphology  
Geography 2065 - Physical Geology  
Geography 2300 - Weather and Climate  
Geography 2700 - Geographical Data and Analysis  
Geography 2735 - Introduction to Geographical Information Science  
Geography 3075 - Environmental Resources Management  
Geography 3080 - Soils  
Geography 3210 - Food Systems Analysis  
Geography 3400 - Hydrology  
Geography 3700 - Mapping in the Cloud  
Geography 3720 - Remote Sensing  
Geography 3740 - Geographical Information Systems  
Geography 4060 - Agricultural Soil Management  
Geography 4065 - Irrigation Science  
Geography 4400 - Advanced Hydrology  
Geography 4725 - Advanced Remote Sensing  
Geography 4740 - Advanced Geographical Information Systems

**Technical Studies Term (five courses)**

Students are required to complete a term of study at an approved college. The Technical Studies term counts as the equivalent of 15.0 credit hours at the University of Lethbridge (i.e., three unspecified 2000-level and two unspecified 3000-level Agricultural Studies courses).

The Technical Studies term should be taken after at least 20 university courses have been completed and prior to registration in the final 10 courses for the degree.

Students must have the college course selection approved by the Coordinator of Agricultural Studies. Further details are available from the Coordinator.

**Notes**

<sup>1</sup> Corequisite required: Biochemistry 2000.

Applied Studies, Independent Studies and Topics courses may be counted toward the subfield requirements provided they are (1) clearly related to one of the subfields and (2) they are approved by the Coordinator of Agricultural Studies.

Students may not receive credit for courses at the University of Lethbridge for which close equivalents have been taken at the college, and vice versa. Students must ensure that their course selection has been approved by the Coordinator of Agricultural Studies.

Students wishing to pursue the Concentration in Geographical Information Science must complete Geography 2735 among the eight courses required in the Geography subfield.

A student who successfully completes this major may apply to the Alberta Institute of Agrologists (AIA) to be registered as a Professional Agrologist within Alberta. Students should contact the Coordinator of Agricultural Studies early in the program for further information.

**Concentration: Agricultural Business (optional)**

Agricultural Studies majors in the B.Sc. degree program may declare a Concentration in Agricultural Business.

**Required Courses:**

Accounting 2100 - Introductory Accounting  
Marketing 2020 - Marketing

**Three of:**

Economics 3030 - Managerial Economics  
 Economics 3780/Management 3780 - Principles of Industrial Organization  
<sup>1</sup> Human Resources and Labour Relations 3050 - Human Resource Management  
 Management 3010 - Business Law  
 Political Science 2210 - Canadian Politics and Government

**Notes:**

<sup>1</sup>Corequisite: Management 1000

For students who complete all requirements, the Concentration in Agricultural Business will be acknowledged on the official academic transcript.

**Concentration: Geographical Information Science (optional)**

Agricultural Studies majors in the B.Sc. degree program may declare a Concentration in Geographical Information Science.

**Required Courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems

**Notes:**

An alternate Geography course may be counted toward the Concentration requirements provided (1) it is clearly related to Geographical Information Science and (2) it is approved by the Chair of the Department of Geography.

Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the major. In such cases, students must select another option.

For students who complete all the requirements, the Concentration in Geographical Information Science will be acknowledged on the official academic transcript.

**d. Anthropology (B.A.)**

Department: Anthropology

Anthropology is the academic study of the diversity of human life in local settings, whether in the past or present. The particulars of any local life, society, or culture, however, are not isolated from global influence. Contemporary anthropology examines the material, social, and cultural conditions of human behaviour and life from this locally global perspective. Traditionally, long-term ethnographic and archaeological fieldwork in other societies has been the hallmark of the anthropological study of the human condition, but anthropologists are also cultural critics considering issues of race, gender, power, space, and government in their own societies as well. The anthropological perspective makes significant contributions to fields as diverse as health, education, international development, religion, policy, urban studies, indigenous studies, economics, and politics.

Please refer to the program website ([www.ulethbridge.ca/artsci/anthropology](http://www.ulethbridge.ca/artsci/anthropology)) for more information.

Number of courses required for the major: 13

**Required courses:**

Anthropology 1000 - The Anthropological Perspective  
 Anthropology 2210 - Cultures of the World (Series)  
 Anthropology 2410 - Anthropological Approaches to Prehistory  
 Anthropology 3000 - Anthropological Thought  
 Anthropology 3010 - Methods, Knowledge, and Ethics  
 Two additional courses (6.0 credit hours) in Anthropology at the 3000 or 4000 level  
 Two courses (6.0 credit hours) in Anthropology at the 4000 level  
 Four additional courses (12.0 credit hours) in Anthropology at the 2000 level or above

**Notes**

Independent Studies courses, Applied Studies courses, and the Undergraduate Thesis may not be counted as part of the minimum requirements for the major.

**e. Applied Statistics (B.Sc.)**

Departments: Mathematics and Computer Science, Economics, Geography and Environment, and Psychology

Statistics is the study of the collection, organization, analysis, interpretation, and presentation of data. Application of statistical techniques is an essential part of decision making and study in a wide range of disciplines such as astronomy, biology, education, economics, geography, engineering, genetics, marketing, medicine, psychology, public health, and sports, among many.

Please refer to the program website ([www.ulethbridge.ca/artsci/math-computer-science](http://www.ulethbridge.ca/artsci/math-computer-science)) for more information.

Number of courses required for the major: 21-23

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Mathematics 1410 - Elementary Linear Algebra

Statistics 1770 - Introduction to Probability and Statistics  
 Statistics 2200 - Survey Design and Analysis  
 Statistics 3500 - Mathematical Probability  
 Statistics 3510 - Mathematical Statistics  
 Statistics 3700 - Design and Analysis of Experiments

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II

**One of:**

Statistics 2780 - Statistical Inference  
 Economics 2900 - Economics and Business Statistics

One course (3.0 credit hours) at the 4000 level in Statistics

**Required Concentration:**

For the Major in Applied Statistics, all students must complete one of the following concentrations:

1. **Concentration in Economics (10 courses)**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Economics 2750 - Quantitative Methods in Economics  
 Economics 3010 - Intermediate Microeconomic Theory  
 Economics 3012 - Intermediate Macroeconomic Theory  
 Economics 3950 - Econometrics I  
 Economics 4960 - Econometrics II  
 One additional course (3.0 credit hours) in Economics at the 3000/4000 level  
 Two additional courses (6.0 credit hours) in Economics at the 4000 level

2. **Concentration in Geography (10 courses)**

Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography  
 Geography 2210 - Spatial Organization of Economic Activity  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems

**One of:**

Geography 2030 - Geomorphology  
 Geography 2300 - Weather and Climate

**One of:**

Geography 3735 - Analysis of Environmental Data  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems  
 Remote Sensing 4650 - Physics of Remote Sensing

One additional course (3.0 credit hours) in Geography at the 3000/4000 level

3. **Concentration in Psychology (12 courses)**

Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception  
 Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal  
 Psychology 1030 - Methods and Statistics A  
 Psychology 2030 - Methods and Statistics B  
 Psychology 3400 - Advanced Research Design and Data Analysis  
 Four courses (12.0 credit hours) in Psychology or Neuroscience at the 2000 level  
 Two additional courses (6.0 credit hours) in Psychology or Neuroscience at the 3000/4000 level  
 One course (3.0 credit hours) in Psychology at the 4000 level

For students who complete all requirements for the Major in Applied Statistics with one of the above concentrations, the concentration will be acknowledged on the official academic transcript.

**Notes**

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in Computer Science, Mathematics, and Statistics.

**f. Archaeology (B.A.)**

Department: Geography and Environment

Archaeology is the study of the human past through material culture. Uniquely suited to understanding long-term change, archaeology facilitates the exploration of diverse cultures across different regions and times. It is an intrinsically multi-disciplinary field of study; therefore, the major allows students to approach archaeology from different academic perspectives. Students in the program will also gain a specialization in particular regions, periods, or methods through lecture courses, laboratory analysis, and field work.

Please refer to the program website ([www.ulethbridge.ca/artsci/archaeology](http://www.ulethbridge.ca/artsci/archaeology)) for more information.

Number of courses required for the major: 21

**Required courses:**

Anthropology 1000 - The Anthropological Perspective  
 Archaeology 1000 - Introduction to Archaeology  
 Archaeology 2610 - Old World Archaeology  
 Archaeology 3300 - Archaeological Field Work (Series)  
 Archaeology 3700 - Geoarchaeology and Landscape Analysis  
 Archaeology 3720 - Archaeological Materials Analysis  
 Archaeology 4100 - Advanced Archaeological Theory (Series)  
 History 2001 - Main Themes in Ancient History  
 One course (3.0 credit hours) in a language other than English

**One of:**

Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography

**One of:**

History 1000 - The Western World  
 History 1200 - World History

**One of:**

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
 Religious Studies 1000 - Introduction to World Religions

Four additional courses (12.0 credit hours) in Archaeology at the 3000 or 4000 level

Three additional courses (9.0 credit hours) in Anthropology, Geography, History, Indigenous Studies, or Religious Studies at the 3000 or 4000 level

Two additional courses (6.0 credit hours) in Anthropology, Geography, History, Indigenous Studies, or Religious Studies at the 2000 level or higher

**g. Archaeology and Geography (B.Sc.)**

Department: Geography and Environment

Archaeology is the study of the human past based on cultural remains viewed in their spatial context. Archaeological research is often pursued using spatial and environmental models developed within the field of Geography. The major in Archaeology and Geography allows students to combine theoretical and methodological approaches, in tandem with advanced studies of particular cultures through conventional lecture courses and field work.

Please refer to the program website ([www.ulethbridge.ca/artsci/archaeology](http://www.ulethbridge.ca/artsci/archaeology)) for more information.

Number of courses required for the major: 21

**Required courses:**

Anthropology 1000 - The Anthropological Perspective  
 Archaeology 1000 - Introduction to Archaeology  
 Archaeology 2610 - Old World Archaeology  
 Archaeology 3300 - Archaeological Field Work (Series)  
 Archaeology 3700 - Geoarchaeology and Landscape Analysis  
 Archaeology 3720 - Archaeological Materials Analysis  
 Archaeology 4100 - Advanced Archaeological Theory (Series)  
 Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography  
 Geography 2030 - Geomorphology  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science  
 One course (3.0 credit hours) in a language other than English  
 Four additional courses (12.0 credit hours) in Archaeology at the 3000 or 4000 level  
 Three additional courses (9.0 credit hours) in Geography or Anthropology at the 3000 or 4000 level  
 One additional course (3.0 credit hours) in Geography or Anthropology at the 2000 level or higher



**Concentration: Geographical Information Science (optional)**

Majors in Archaeology and Geography may declare a Concentration in Geographical Information Science.

**Required Courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems

**Notes:**

An alternate Geography course may be counted toward the concentration requirements provided (1) it is clearly related to Geographical Information Science and (2) it is approved by the Chair of the Department of Geography.

Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the Major in Archaeology and Geography.

For students who complete all requirements, the Concentration in Geographical Information Science will be acknowledged on the official academic transcript.

**h. Art (B.A.)**

The major in Art for the B.A. is administered by the Faculty of Fine Arts. Please refer to the **Faculty of Fine Arts** section for more information on major requirements.

**i. Biochemistry (B.Sc.)**

Departments: Biological Sciences, and Chemistry and Biochemistry

Biochemistry is the study of all living systems at the molecular level. It looks at the chemical and physical basis of life and how these microcosms interact with their environments. The Biochemistry program will help students develop a strong background in the basic sciences and extensive laboratory skills. Thereby, the Biochemistry program provides background for a diverse range of careers in the life sciences, including professional programs such as medicine and veterinary medicine.

Please refer to the program website ([www.ulethbridge.ca/artsci/biochemistry](http://www.ulethbridge.ca/artsci/biochemistry)) for more information.

Number of courses required for the major: 24

**Required courses:**

Biochemistry 2000 - Introductory Biochemistry  
 Biochemistry 3100 - Proteins, Enzymes and Nucleic Acids  
 Biochemistry 3300 - Bioenergetics and Metabolism  
 Biology 1010 - Cellular Basis of Life  
 Biology 1020 - Diversity of Life  
 Biology 2000 - Principles of Genetics  
 Biology 2300 - Cell Biology  
 Biology 3000 - Gene Expression and Regulation  
 Biology 3210 - Experimental Methods in Molecular and Cellular Biology  
 Chemistry 1000 - General Chemistry I  
 Chemistry 2000 - General Chemistry II  
 Chemistry 2410 - Analytical Chemistry I  
 Chemistry 2500 - Organic Chemistry I  
 Chemistry 2600 - Organic Chemistry II  
 Chemistry 2740 - Physical Chemistry I  
 Physics 2000 - Introduction to Physics II

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II

**One of:**

Physics 1000 - Introduction to Physics I (recommended)  
 Physics 1050 - Introduction to Biophysics  
<sup>1</sup> Engineering 2060 - Engineering Mechanics

**One of:**

Biochemistry 3000 - Studies in Biochemistry (Series)  
 Biochemistry 3700/Neuroscience 3700 - Introduction to Bioinformatics  
 Interdisciplinary Studies 3200 - Genetically Engineered Machines  
 Biology 3400 - Principles of Microbiology

**Two of:**

Biochemistry 3000 - Studies in Biochemistry (Series)  
 Biochemistry 3700/Neuroscience 3700 - Introduction to Bioinformatics  
 Biochemistry 3990 - Independent Study  
 Biochemistry 4990 - Independent Study  
 Biochemistry 4995 - Undergraduate Thesis (6.0 credit hours)  
 Biology 3005 - Genomes  
 Biology 3110 - Cell Signalling  
 Biology 3310 - Developmental Biology  
 Biology 3400 - Principles of Microbiology  
<sup>1</sup> Biology 3420 - Animal Physiology  
<sup>1</sup> Biology 3460 - Plant Physiology  
 Chemistry 3410 - Analytical Chemistry II  
<sup>1</sup> Chemistry 3730 - Physical Chemistry II  
 Chemistry 3830 - Inorganic Chemistry I  
 Chemistry 3840 - Inorganic Chemistry II  
 Chemistry 4000 - Advanced Chemistry (Series)  
 Chemistry 4010 - Advanced Chemistry with Laboratory (Series)  
 Interdisciplinary Studies 3200 - Genetically Engineered Machines  
 Neuroscience 3600 - Fundamental Neurobiology

**Two of:**

Any Biochemistry course at the 4000 level  
 Biology 4100 - Advances in Biotechnology  
 Biology 4130 - Medical Genomics  
 Biology 4140 - RNA Biology  
 Biology 4155 - Cannabis and Health  
 Biology 4180 - Natural Products  
 Biology 4200 - Techniques in Molecular Biology  
 Biology 4230 - Molecular and Cellular Biology of Cancer

**Recommended courses:**

The following courses are recommended for completion of the Liberal Education List Requirement:

Philosophy 2220 - Philosophy of Mind  
 Philosophy 3270 - Theory of Knowledge  
 Philosophy 3402 - Biomedical Ethics  
 English 1900 - Introduction to Language and Literature  
 Writing 1000 - Introduction to Academic Writing

The following courses are recommended as electives:

Biology 2150 - Biostatistics  
 Computer Science 1620 - Fundamentals of Programming I  
 Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences

**Notes**

<sup>1</sup> This course has a prerequisite that is not required for the major. See the Course Catalogue (p. 343) for more information.

Applied Studies may not be counted as part of the minimum requirements for the major.

Students should choose appropriate 3000-level Biology or Chemistry courses to meet prerequisites for 4000-level courses in Biochemistry and/or Biology.

It is strongly recommended that students who are planning to pursue graduate studies in Biochemistry consider the Undergraduate Thesis option during the final two terms of their fourth year. Students interested in this option should consult potential supervisors at an early stage to discuss their background preparation. The Undergraduate Thesis course (Biochemistry 4995; 6.0 credit hours) will satisfy the first "Two of" list requirement, above.

**j. Biological Sciences (B.Sc.)**

Department: Biological Sciences

The Biological Sciences delve into the world of living organisms - from microbes, to human beings, to entire ecosystems - on, under and above the earth. Exploring the nature of life leads biologists out into the world to study how organisms interact with their environment, how they function, and how they evolved. The curriculum provides basic studies in molecular and cellular biology, organismal biology, and ecology and evolutionary biology during a student's first two years, with subsequent opportunities for specialization. Advanced courses also offer opportunities for independent laboratory or field research projects in the three areas. The program provides background for a diverse range of careers in the life sciences and a gateway to professional programs such as medicine and veterinary medicine.

Please refer to the program website ([www.ulethbridge.ca/artsci/biological-sciences](http://www.ulethbridge.ca/artsci/biological-sciences)) for more information.

Number of courses required for the major: 23

**Required courses:**

Biochemistry 2000 - Introductory Biochemistry  
 Biology 1010 - Cellular Basis of Life  
 Biology 1020 - Diversity of Life  
 Biology 2000 - Principles of Genetics  
 Biology 2150 - Biostatistics  
 Biology 2200 - Principles of Ecology  
 Biology 2300 - Cell Biology  
 Biology 3300 - Evolution  
 Biology 4500 - Seminars in Biological Sciences  
 Chemistry 1000 - General Chemistry I  
 Chemistry 2000 - General Chemistry II  
 Chemistry 2500 - Organic Chemistry I

**One of:**

Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I

**One of:**

Physics 1000 - Introduction to Physics I  
 Physics 1050 - Introduction to Biophysics (preferred)

**One of:**

One course (3.0 credit hours) in English at the 1000 level or higher  
 Writing 1000 - Introduction to Academic Writing

<sup>1</sup> Six courses (18.0 credit hours) in Biology at the 3000 level, including two from each of the subfield lists.

**List 1 - Cellular and Molecular Biology**

Biochemistry 3100 - Proteins, Enzymes and Nucleic Acids  
 Biochemistry 3700/Neuroscience 3700 - Introduction to Bioinformatics  
 Biology 3000 - Gene Expression and Regulation  
 Biology 3005 - Genomes  
 Biology 3110 - Cell Signalling  
 Biology 3210 - Experimental Methods in Molecular and Cellular Biology  
 Biology 3400 - Principles of Microbiology

**List 2 - Organismal Biology**

Biology 3310 - Developmental Biology  
 Biology 3420 - Animal Physiology  
 Biology 3460 - Plant Physiology  
 Biology 3520 - Invertebrate Zoology  
 Biology 3530 - Vertebrate Zoology  
 Biology 3560 - Integrative Plant Biology

**List 3 - Ecology and Evolutionary Biology**

Biology 3630 - Field Biology  
 Biology 3660 - Field Botany  
 Biology 3700 - Ecosystem Ecology  
 Biology 3710 - Population Biology  
 Biology 3720 - Community Ecology

Two additional courses (6.0 credit hours) in Biology at the 4000 level.

**Notes**

<sup>1</sup> Topics courses (Biology 3850) may be assigned to one of the Biological Sciences lists at the time of scheduling. Please refer to the current term timetable.

Applied Studies, Independent Studies, and the Undergraduate Thesis may not be counted as part of the minimum requirements for the major; however, they are strongly encouraged for students taking courses beyond this minimum.

**Concentration: Research Internship (optional)**

Students completing the major in Biological Sciences for the B.Sc. may declare a Research Internship Concentration.

**Admission Requirements:**

Students interested in the Research Internship option will need to qualify according to one of the following routes:

**1. Direct Entry**

Students applying to the Research Internship Concentration with fewer than four university courses completed will be considered direct entry applicants. Direct entry applicants must present a minimum 80% grade in Biology 30 and a minimum 75% admission average (see **Admission, p. 89**).

**2. Delayed Entry**

Students applying to the Research Internship Concentration after completing four or more university courses will be considered delayed entry applicants. Delayed entry applicants must present one of Biology 1010 or Biology 1020 and a minimum GPA of 3.00 (calculated on all completed university-level courses).

Fulfillment of one of the above admission routes does not guarantee admission due to a limited number of seats. Students may be ranked according to GPA, and may be asked for a *Letter of Intent*, references, and/or an interview.

#### **Continuation:**

Students admitted to the Research Internship Concentration must maintain a minimum cumulative GPA of 3.00. Students who fall below 3.00 will be removed from the concentration.

#### **Required courses:**

Biology 2001 - Research Internship I: Scientific Discovery  
 Biology 2002 - Research Internship II: Scientific Data and Analysis  
 Biology 3001 - Research Internship III: Communicating Science

#### **One of:**

Biology 4995 - Undergraduate Thesis (6.0 credit hours)  
 Two Independent Study courses (6.0 credit hours) in Biology at the 3000/4000 level

#### **Notes**

Students are encouraged to complete additional research intensive activities (Applied Studies, Independent Studies, Co-operative Education).

For students who complete all requirements, the Research Internship Concentration will be acknowledged on the official academic transcript.

#### **Concentration: Biomedical Sciences (optional)**

Students completing the major in Biological Sciences for the B.Sc. may declare a Concentration in Biomedical Sciences.

#### **Required courses:**

Biology 3110 - Cell Signalling

#### **One of:**

Biology 3000 - Gene Expression and Regulation  
 Biology 3005 - Genomes

#### **One of:**

Biology 3310 - Developmental Biology  
 Biology 3420 - Animal Physiology

#### **Two of:**

Biology 4130 - Medical Genomics  
 Biology 4140 - RNA Biology  
 Biology 4155 - Cannabis and Health  
 Biology 4180 - Natural Products  
 Biology 4230 - Molecular and Cellular Biology of Cancer  
 Biology 4440 - Toxicology

#### **Notes**

Students may not double count courses required for the Concentration in Biomedical Sciences in fulfilling requirements for the major. In such cases, students must select another option.

For students who complete all requirements with a GPA of at least 3.00 calculated on the concentration courses, the Concentration in Biomedical Sciences will be acknowledged on the official academic transcript.

#### **Concentration: Conservation and Biodiversity (optional)**

Students completing the major in Biological Sciences for the B.Sc. may declare a Concentration in Conservation and Biodiversity.

#### **Required courses:**

Biology 4605 - Conservation Biology

#### **One of:**

Biology 3520 - Invertebrate Zoology  
 Biology 3530 - Vertebrate Zoology  
 Biology 3560 - Integrative Plant Biology

#### **Three of:**

Biology 3630 - Field Biology or Biology 3660 - Field Botany  
 Biology 3700 - Ecosystem Ecology  
 Biology 3710 - Population Biology  
 Biology 3720 - Community Ecology  
 Biology 4210 - Environmental Genomics  
 Biology 4700 - Molecular Ecology  
 Biology 4740 - Behavioural Ecology

<sup>1</sup> Political Science 3260 - Canadian Public Policy or Philosophy 2236 - Environmental Philosophy or  
 Economics 3220 - Environmental Economics<sup>1</sup>

<sup>2</sup> Biology 3990 - Independent Study or Biology 4990 - Independent Study<sup>2</sup>

**Notes**

<sup>1</sup>Prerequisite required that is not part of the major.

<sup>2</sup>One Independent Study may be used as part of the concentration provided (1) it is clearly related to Conservation and Biodiversity and (2) it is approved by the Chair of the Department of Biological Sciences.

Students may not double count courses required for the Concentration in Conservation and Biodiversity in fulfilling requirements for the major. In such cases, students must select another option.

For students who complete all requirements, the Concentration in Conservation and Biodiversity will be acknowledged on the official academic transcript.

**k. Canadian Studies (B.A.)**

The Canadian Studies major is for students wishing to deepen their understanding of Canada. The major comprises a core of courses that provide a foundation for more focused and advanced study. Beyond the core, students choose from amongst several interdisciplinary thematic areas. Many Canadian Studies graduates work in business, as teachers, or in government at all levels; others have gone on to study for advanced degrees in law and public administration.

Please refer to the program website ([www.ulethbridge.ca/artsci/canadian-studies](http://www.ulethbridge.ca/artsci/canadian-studies)) for more information.

Number of courses required for the major: 20

**Required core (8-12 courses):**

A minimum of eight courses (24.0 credit hours) and a maximum of 12 courses (36.0 credit hours) from the following list:

English 2000 - Survey of Canadian Literature

**Two of:**

French 1000 - Beginners' French I

French 1100 - Beginners' French II

French 2001 - Intermediate Language for Immersion Graduates

French 2010 - Intermediate Language I

French 2020 - Intermediate Language II

French 2200 - Culture and Civilization I

French 2250 - French Immersion

French 2300 - Introduction to Modern Literature and Literary Analysis

**Two of:**

Economics 3170 - Economic History of Canada

History 2710 - Canada to 1867

History 2720 - Canada Since 1867

**Three of:**

Geography 2600 - Canada

Indigenous Studies 2100 - Indigenous Peoples and Law

Indigenous Studies 2400 - Comparative Traditional Indigenous Economies

Indigenous Studies 2500 - Indigenous Histories of Canada

Political Science 2210 - Canadian Politics and Government

Sociology 2010 - Canadian Society

Sociology 2410 - Sociology of Gender

**Independent Study (one course)**

One Independent Study course (3.0 credit hours) in Canadian Studies at the 3000/4000 level

**Options (7-11 courses):**

A minimum of seven courses (21.0 credit hours) and a maximum of 11 courses (33.0 credit hours) from the following 3000/4000-level courses:

Art History 3240 - Canadian Art History to 1960

Art History 3245 - Canadian Art History from 1960 to the Present

Economics 3210 - Natural Resource Economics

Economics 4300 - Agricultural Policy II

English 3001 - Canadian Poetry

English 3002 - Contemporary Canadian Drama

English 3008 - Canadian Literature, 1867 - 1914

English 3810 - Contemporary Canadian Literature

English 4000 - Seminars in Canadian and Post-Colonial Literature (Series)

French 3001 - Advanced Language I

French 3200 - Culture and Civilization II (Series)

French 3600 - Literary Genres (Series)

French 4001 - Advanced Language II

French 4002 - Advanced Studies in Language (Series)

French 4600 - Seminar in Literature (Series)

History 3703 - History of Western Canada

History 3707 - Canada Since 1939

History 4070 - Seminars in Canadian History (Series)  
 Indigenous Studies 3300 - Canadian Indigenous Art History and Theory  
 Indigenous Studies 3500 - Indigenous Treaties in an International Context  
 Indigenous Studies 3700 - Indigenous Health  
 Indigenous Studies 4400 - Indigenous Peoples and the Criminal Justice System  
 Indigenous Studies 4700 - The Metis  
 Political Science 3120 - Canadian Foreign Policy  
 Political Science 3221 - The Politics of Canadian Federalism  
 Political Science 3241 - Canadian Constitutional Law: Federalism and First Nations  
 Political Science 3250 - Alberta Politics and Government  
 Political Science 3260 - Canadian Public Policy  
 Political Science 3280 - Canadian Political Behaviour  
 Political Science 3400 - Public Administration

### Notes

Selected Applied Studies, Independent Studies, Topics courses, and offerings in the English 4000, French 3200, French 3600, French 4002, and French 4600 Series may be counted toward the Options courses in the major provided (1) they are clearly related to Canadian Studies and (2) they are approved by the Coordinator of Canadian Studies.

Many of the Options courses require prerequisites, thus students should choose courses with this in mind.

The required Independent Study course should involve more than one discipline and must be approved by the Coordinator of Canadian Studies.

## I. Chemistry (B.Sc.)

Department: Chemistry and Biochemistry

Chemistry is the central science of matter, dealing with the 118 known elements from which everything is made. It studies the transformations and properties of all substances - natural and synthetic. Chemistry students develop a strong background in theory and practice and acquire extensive laboratory skills. Chemistry is an experimental science, and students are strongly encouraged to perform original research in partial fulfillment of the degree requirements. The Major in Chemistry leads to professional certification (P.Chem.), and graduates are prepared for careers in industry or the public sector. The degree is also suitable for advanced study in chemistry and can be used to prepare for other professional programs (Dentistry, Medicine, or Veterinary Medicine).

Please refer to the program website ([www.ulethbridge.ca/artsci/chemistry-biochemistry](http://www.ulethbridge.ca/artsci/chemistry-biochemistry)) for more information.

Number of courses required for the major: 24

### Required courses:

Biochemistry 2000 - Introductory Biochemistry  
 Biology 1010 - Cellular Basis of Life  
 Chemistry 1000 - General Chemistry I  
 Chemistry 2000 - General Chemistry II  
 Chemistry 2410 - Analytical Chemistry I  
 Chemistry 2500 - Organic Chemistry I  
 Chemistry 2600 - Organic Chemistry II  
 Chemistry 2740 - Physical Chemistry I  
 Chemistry 3250 - Contemporary Chemistry  
 Chemistry 3410 - Analytical Chemistry II  
 Chemistry 3730 - Physical Chemistry II  
 Chemistry 3830 - Inorganic Chemistry I  
 Chemistry 3840 - Inorganic Chemistry II  
 Mathematics 1410 - Elementary Linear Algebra  
 Physics 2000 - Introduction to Physics II

### One of:

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I (recommended)

### One of:

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II (recommended)

### One of:

Physics 1000 - Introduction to Physics I (recommended)  
 Physics 1050 - Introduction to Biophysics  
<sup>1</sup> Engineering 2060 - Engineering Mechanics

<sup>2</sup> Two offerings (6.0 credit hours) chosen from the following list:

Chemistry 4000 - Advanced Chemistry (Series)  
 Chemistry 4010 - Advanced Chemistry with Laboratory (Series)

<sup>2</sup> Four additional courses (12.0 credit hours) in Chemistry or Biochemistry chosen from the following list:

Additional offerings of Chemistry 4000 - Advanced Chemistry (Series)  
 Additional offerings of Chemistry 4010 - Advanced Chemistry with Laboratory (Series)  
 Biochemistry 3100 - Proteins, Enzymes and Nucleic Acids  
 Biochemistry 3300 - Bioenergetics and Metabolism  
 Chemistry 3990 - Independent Study  
 Chemistry 4990 - Independent Study  
 Chemistry 4995 - Undergraduate Thesis (6.0 credit hours)

### Notes

<sup>1</sup> Has prerequisites: Engineering 2000 and Mathematics 1565.

<sup>2</sup> A minimum of two of the six selected courses must be lab-based. Offerings in the Chemistry 4000 Series do not meet this requirement. Chemistry 3990 and 4990 may meet this requirement if the Independent Study includes laboratory work.

This program has been accredited by the Canadian Society for Chemistry (CSC), which is the national organization representing chemists, and is acceptable for membership in the Association of the Chemical Profession of Alberta (ACPA). Students who complete a B.Sc. degree with the major in Chemistry outlined above will have a degree accredited by the CSC.

Those who plan to pursue graduate studies in Chemistry should take more than the minimum of 18 courses in Chemistry or Biochemistry and should obtain advice on their program from the department. Students can get credit for participating in original research as part of their studies, especially if preparing for advanced Chemistry degrees.

Chemistry courses are organized in sequences and must be taken in the proper order. In addition, several of the 3000-level courses are offered only in alternate years. Students at an early stage of their studies are advised to seek help in planning their programs from the Department Advisor or from any faculty member in the Department of Chemistry and Biochemistry.

## m. Computer Science (B.Sc.)

Department: Mathematics and Computer Science

Computer Science is the study of algorithms and data structures and their applications in designing new and efficient solutions to industrial, technological, environmental or social problems. The program is designed to enable students to gain both theoretical knowledge and practical experience, and includes access to state-of-the-art hardware and software.

Please refer to the program website ([www.ulethbridge.ca/artsci/math-computer-science](http://www.ulethbridge.ca/artsci/math-computer-science)) for more information.

Number of courses required for the major: 18

### Required courses:

Computer Science 1620 - Fundamentals of Programming I  
 Computer Science 1820 - Discrete Structures  
 Computer Science 2610 - Introduction to Digital Systems  
 Computer Science 2620 - Fundamentals of Programming II  
 Computer Science 2720 - Practical Software Development  
 Computer Science 3615 - Computer Architecture  
 Computer Science 3620 - Data Structures and Algorithms  
 Computer Science 3740 - Programming Languages  
 Mathematics 2000 - Mathematical Concepts

### One of:

Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1510 - Calculus for Management and Social Sciences  
 Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I  
 Statistics 1770 - Introduction to Probability and Statistics

<sup>1</sup> Six additional courses (18.0 credit hours) in Computer Science at the 3000/4000 level

Two courses (6.0 credit hours) in Computer Science at the 4000 level, excluding Computer Science 4850 (Topics), Computer Science 4980 (Applied Studies), and Computer Science 4990 (Independent Study)

### Notes

<sup>1</sup> One of the six additional 3000/4000-level courses may be replaced by a course from the following list:

Physics 3900 - Intermediate Experimental Physics (Series) (Digital Electronics)  
 Any 3000/4000-level Mathematics course

It is strongly recommended that Computer Science majors include additional Mathematics courses in their program. Students intending to take Physics 3900 should plan carefully to include the appropriate Mathematics and Physics prerequisites in their programs.

Some senior courses are scheduled for alternate years. Since these courses are frequently sequential and dependent upon adequate preparation, students are urged to seek advice before the end of their third term in planning a major and selecting courses.

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in Computer Science and Mathematics.

**n. Computer Science and Geographical Information Science (B.Sc.)**

Departments: Geography and Environment, and Mathematics and Computer Science

Geographical Information Science (GIS) involves the use and analysis of digital maps, databases, models and mobile applications, as well as navigation and spatial integration tools. Major GIS application areas include remote sensing, geographical information systems, computer graphics, image processing and mapping and spatial modelling. These rely on advanced computer science algorithms and software development, platform integration, hardware design and operating system principles. The major provides applied training coupled with a solid theoretical and developmental foundation. Graduates have the choice of a wide range of employment opportunities that involve applications, development or both.

Please refer to the program website ([www.ulethbridge.ca/artsci/gis](http://www.ulethbridge.ca/artsci/gis)) for more information.

Number of courses required for the major: 22

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Computer Science 1820 - Discrete Structures  
 Computer Science 2620 - Fundamentals of Programming II  
 Computer Science 2720 - Practical Software Development  
 Computer Science 3620 - Data Structures and Algorithms  
 Computer Science 3660 - Introduction to Database Systems  
 Computer Science 3710 - Computer Graphics  
 Computer Science 4660 - Database Management Systems  
 Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems

**One of:**

Geography 4400 - Advanced Hydrology  
 Geography 4700 - Advanced Digital Mapping  
 Geography 4710 - Remote Sensing Field Techniques  
 Geography 4751 - Spatial Modelling  
 Geography 4753 - Seminar in Remote Sensing

**Four of:**

Any of the courses listed above but not already selected as required courses

Computer Science 2610 - Introduction to Digital Systems  
 Computer Science 3720 - Introduction to Software Engineering  
<sup>1</sup> Computer Science 3740 - Programming Languages  
 Computer Science 3750 - Artificial Intelligence  
 Computer Science 3770 - Human-Computer Interaction  
 Computer Science 3780 - Data Communications and Networking  
 Geography 2030 - Geomorphology  
 Geography 2300 - Weather and Climate  
 Geography 3400 - Hydrology  
 Geography 3700 - Mapping in the Cloud  
 Geography 3710 - Field Techniques in the Earth Sciences  
 Geography 3750 - GIS Applications in Human Geography  
 Geography 4730 - Spatial Statistics

<sup>2</sup> Statistics 2780 - Statistical Inference

One course (3.0 credit hours) in Computer Science at the 4000 level, excluding Computer Science 4850 (Topics), Computer Science 4980 (Applied Studies), and Computer Science 4990 (Independent Study)

**Notes**

<sup>1</sup> Prerequisite required: *Mathematics 2000*.

<sup>2</sup> Prerequisite required: *Statistics 1770*.

**o. Dramatic Arts (B.A.)**

The major in Dramatic Arts for the B.A. is administered by the Faculty of Fine Arts. Please refer to the **Faculty of Fine Arts** section for more information on major requirements.



**p. Economics (B.A.)**

Department: Economics

Economics is the study of the allocation of scarce resources by societies to meet individual and social wants. The major includes a number of courses in microeconomics and macroeconomics. These provide the theoretical framework within which contemporary issues, such as pollution, non-renewable natural resources, free trade, agricultural subsidies, interest rates, government deficits, unemployment, inflation, poverty and third world development can be analyzed and appropriate policies can be recommended.

Please refer to the program website ([www.ulethbridge.ca/artsci/economics](http://www.ulethbridge.ca/artsci/economics)) for more information.

Number of courses required for the major: 14

**Required courses:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Economics 2750 - Quantitative Methods in Economics  
 Economics 2900 - Economics and Business Statistics  
 Economics 3010 - Intermediate Microeconomic Theory  
 Economics 3012 - Intermediate Macroeconomic Theory  
 Economics 3950 - Econometrics I  
 Statistics 1770 - Introduction to Probability and Statistics  
 Three courses (9.0 credit hours) in Economics at the 4000 level  
 Three additional courses (9.0 credit hours) in Economics

**Notes**

Please note that credit will not be granted for both Economics 2900 and Statistics 2780.

It is recommended that Economics majors include courses in Mathematics, especially courses in Calculus, as part of their overall programs.

It is also strongly recommended that students who are considering graduate studies in Economics include in their programs as many 4000-level courses as possible, and in particular the following courses:

Economics 4010 - Advanced Microeconomic Theory  
 Economics 4012 - Advanced Macroeconomic Theory  
 Economics 4150 - Mathematical Economics

**q. English (B.A.)**

Department: English

English is the study of the properties and powers of the English language and literature as the fundamental means by which we communicate our values, ideals and vision. Courses in the fundamentals of the three main literary genres of poetry, prose and drama prepare students for the close study of major works and periods of literature from the British, American, Canadian, and post-Colonial traditions. In addition, the curriculum includes a variety of special courses in rhetoric, the history of language, literary theory, gender, children's literature and creative writing. At the senior level, courses concentrate on specific topics such as particular authors and are conducted in small seminar classes which stimulate open and intensive discussion between students and instructor.

Please refer to the program website ([www.ulethbridge.ca/artsci/english](http://www.ulethbridge.ca/artsci/english)) for more information.

Number of courses required for the major: 13

**Required courses:**

English 1900 - Introduction to Language and Literature

**Two of (Literary Surveys):**

English 2000 - Survey of Canadian Literature  
 English 2400 - Survey of English Literature I  
 English 2450 - Survey of English Literature II  
 English 2500 - Survey of American Literature I  
 English 2550 - Survey of American Literature II  
 English 2610 - Survey of Children's Literature  
 English 2625 - Survey of World Literature  
 English 2700 - Surveys of Literature (Series)

**Two of (Genres, Approaches and Themes):**

English 2100 - Poetry  
 English 2200 - Drama  
 English 2300 - Prose Fiction  
 English 2605/Indigenous Studies 2605 - Introduction to Indigenous Literature  
 English 2720 - Approaches to Literature (Series)  
 English 2800 - Rhetoric  
 English 2810 - Grammar

Six courses (18.0 credit hours) in English at the 3000/4000 level chosen from the subfield lists below

Two courses (6.0 credit hours) in English at the 4000 level chosen from the subfield lists below

For the above 3000/4000-level requirements, students must draw courses from at least five of the following subfield lists:

1. Theory, Language and Creative Writing
  - English 3010 - Literary Theory
  - English 3060 - Gender and Literature
  - English 3070 - Imperialism and Nationalism in Children's Literature
  - English 3800 - Creative Writing
  - English 3901 - History of the English Language
2. Old and Middle English
  - English 3401 - Medieval Literature
  - English 3450 - Old English
  - English 3601 - Chaucer
3. Renaissance
  - English 3201 - Elizabethan and Jacobean Drama
  - English 3410 - 17th-Century Literature
  - English 3602 - Shakespeare
4. Eighteenth Century and Romantic
  - English 3301 - Rise of the Novel
  - English 3310 - Restoration and 18th-Century Literature
  - English 3350 - Romanticism
5. Nineteenth Century
  - English 3302 - 19th-Century British Novel
  - English 3500 - Victorian Literature
6. Twentieth Century and Contemporary
  - English 3610 - Modernism
  - English 3620 - Modern Drama
  - English 3630 - Modern Novel
  - English 3650 - Contemporary Literature
  - English 3660 - Contemporary Drama
7. Canadian and Post-Colonial
  - English 3001 - Canadian Poetry
  - English 3002 - Contemporary Canadian Drama
  - English 3008 - Canadian Literature, 1867 - 1914
  - English 3605/Indigenous Studies 3605 - Indigenous Literature - Advanced
  - English 3810 - Contemporary Canadian Literature
  - English 3860 - Post-Colonial Literature
  - English 4000 - Seminars in Canadian and Post-Colonial Literature (Series)

### Notes

Offerings in the English 3700, English 4400, and English 4600 series will be assigned to one of the subfield lists at the time of scheduling. Please refer to the current term timetable.

Applied Studies, Independent Studies, and courses not listed under the seven subfields are not counted as part of the 13-course minimum for the major; they are strongly encouraged for students taking courses beyond this minimum, however.

Fourth-year English majors are especially encouraged to become involved in seminars and Independent Studies at the 4000 level. Suggestions for unique and imaginative projects and approaches to fourth-year studies are welcomed by the Department.

### r. Environmental Science (B.Sc.)

Departments: Biological Sciences, and Geography and Environment

Environmental Science focuses on understanding the Earth's natural systems and how we, as humans, interact with them. Environmental scientists study the impact of these interactions on the biosphere, hydrosphere, lithosphere and atmosphere using an interdisciplinary approach. They provide us with the information we need to address some of the most pressing issues facing humanity today - like climate change. The Environmental Science program will provide students with the natural and physical science background needed to understand a multitude of environmental systems, as well as the broad perspective required to appreciate the role of humanity in global environmental change.

Please refer to the program website ([www.ulethbridge.ca/artsci/environmental-science](http://www.ulethbridge.ca/artsci/environmental-science)) for more information.

Number of courses required for the major: 24

#### Required courses:

Biology 1010 - Cellular Basis of Life  
 Biology 1020 - Diversity of Life  
 Biology 2000 - Principles of Genetics  
 Biology 2200 - Principles of Ecology  
 Biology 3300 - Evolution  
 Chemistry 1000 - General Chemistry I

Chemistry 2000 - General Chemistry II  
Environmental Science 2000 - Fundamentals of Environmental Science  
Environmental Science 4000 - Selected Studies in Environmental Science II (Series)  
Geography 1000 - Introduction to Physical Geography  
Geography 2030 - Geomorphology  
Geography 2300 - Weather and Climate  
Geography 2735 - Introduction to Geographical Information Science

**One of:**

Biology 2150 - Biostatistics  
Geography 2700 - Geographical Data and Analysis

**One of:**

Chemistry 2410 - Analytical Chemistry I  
Chemistry 2500 - Organic Chemistry I

**One of:**

Mathematics 1410 - Elementary Linear Algebra  
Mathematics 1560 - Calculus I  
Mathematics 1565 - Accelerated Calculus I

**One of:**

Physics 1000 - Introduction to Physics I  
Physics 1050 - Introduction to Biophysics

**Three of:**

Geography 2065 - Physical Geology  
Geography 2090 - Biogeography  
Geography 3060 - Glaciology and Glacial Geomorphology  
Geography 3080 - Soils  
Geography 3300 - Microclimatology  
Geography 3400 - Hydrology  
Geography 3720 - Remote Sensing  
Geography 3740 - Geographical Information Systems  
Geography 4400 - Advanced Hydrology  
Geography 4730 - Spatial Statistics

**Three of (at least two must be offered with a lab):**

Biology 3460 - Plant Physiology  
Biology 3520 - Invertebrate Zoology  
Biology 3530 - Vertebrate Zoology  
Biology 3560 - Integrative Plant Biology  
Biology 3630 - Field Biology  
Biology 3660 - Field Botany  
Biology 3700 - Ecosystem Ecology  
Biology 3710 - Population Biology  
Biology 3720 - Community Ecology  
Biology 4605 - Conservation Biology  
Biology 4700 - Molecular Ecology  
Biology 4710 - Evolutionary and Ecological Modelling  
Biology 4740 - Behavioural Ecology  
Biology 4800 - Biology of Parasitism  
Biology 4840 - Limnology

**One of:**

Biology 3630 - Field Biology  
Biology 3660 - Field Botany  
Geography 3710 - Field Techniques in the Earth Sciences  
<sup>1</sup> Geography 3780 - Field Research in Geography  
Geography 3792 - Field Excursion in Physical Geography (Series)  
<sup>2</sup> An approved field course

**Technical Studies Term (five courses)**

Students are required to complete a term of study at Lethbridge College, consisting of five courses from the College's Environmental Science program. The Technical Studies term counts as the equivalent of 15.0 credit hours at the University of Lethbridge (three unspecified 2000-level and two unspecified 3000-level Environmental Science courses).

The Technical Studies term should be taken after at least 20 university courses have been completed and prior to registration in the final 10 courses for the degree.

Students must have the college course selection approved by the Coordinator of Environmental Science. Students are not permitted to complete any courses in addition to the approved Lethbridge College courses during the Technical Studies term. Further details are available from the Coordinator.

**Notes**

<sup>1</sup>Prerequisite required: Geography 1200.

<sup>2</sup>Must be approved by the Coordinator of Environmental Science.

Students may not receive credit for courses at the University of Lethbridge for which close equivalents have been taken at Lethbridge College, and vice versa. Students must ensure that their course selection has been approved by the Coordinator of Environmental Science.

**Concentration: Geographical Information Science (optional)**

Environmental Science majors in the B.Sc. degree program may declare a Concentration in Geographical Information Science.

**Required Courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems

**Notes:**

An alternate Geography course may be counted toward the concentration requirements provided (1) it is clearly related to Geographical Information Science and (2) it is approved by the Chair of the Department of Geography.

Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the Major in Environmental Science.

For students who complete all the requirements, the Concentration in Geographical Information Science will be acknowledged on the official academic transcript.

**s. French (B.A.)**

Department: Modern Languages and Linguistics

French is the study - in French - of the language, literature, and culture of the francophone world. Upper-level students may choose to focus on language and linguistics, language and literature, or language and culture. In the course of their studies, students are encouraged to take French courses at a francophone university in Canada or abroad.

Please refer to the program website ([www.ulethbridge.ca/artsci/modern-languages](http://www.ulethbridge.ca/artsci/modern-languages)) for more information.

Number of courses required for the major: 16

**Required courses:****One of the following streams (a. or b.):****a. Non-Immersion Stream** (for students who have completed French 30, French 31, or equivalent)

French 2010 - Intermediate Language I  
 French 2020 - Intermediate Language II

**b. Immersion Stream** (for students who have completed French Language Arts 30, Français 30, or equivalent)

French 2001 - Intermediate Language for Immersion Graduates  
 One additional course in French

French 2250 - French Immersion  
 French 2300 - Introduction to Modern Literature and Literary Analysis  
 French 2700 - Communication écrite et orale  
 French 3001 - Advanced Language I  
 French 3100 - Survey of Pre-Revolutionary French Literature  
 French 3600 - Literary Genres (Series)  
 French 4001 - Advanced Language II

**One of:**

French 4002 - Advanced Studies in Language (Series)  
 French 4600 - Seminar in Literature (Series)

Two additional courses (6.0 credit hours) in French at the 3000/4000 level

Four additional courses (12.0 credit hours) in French

**Notes**

Students may **not** count French 1000 (Beginners' French I) among the minimum requirements for the major.

Students registering in introductory language courses must complete the Student Information Form to determine whether they are registered in the appropriate course. Students may be asked to write the Student Placement Test. Advanced placement may be granted to students who have acquired language skills outside of a formal academic environment. Please refer to [www.ulethbridge.ca/artsci/modern-languages/departement-modern-languages-placement-policy](http://www.ulethbridge.ca/artsci/modern-languages/departement-modern-languages-placement-policy) for more information.

Students who have not completed French 30 or French 31 (or equivalent) should begin their program with French 1000 and/or French 1100 depending on placement test results.

French 2250 and the French Visiting Student Program are required. Please refer to [www.ulethbridge.ca/artsci/modern-languages/visiting-student-programs-vsp](http://www.ulethbridge.ca/artsci/modern-languages/visiting-student-programs-vsp) for information on the Visiting Student Program.

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in French. For more information see an academic advisor in the Student Program Services Office.

**t. French/Spanish (B.A.)**

Department: Modern Languages and Linguistics

The French/Spanish major combines a core of French courses with an equal number of courses in Spanish. Students majoring in French and Spanish will study the language, literature and culture of both the francophone and Spanish worlds in their respective languages. Upper-level French students may choose to focus on language and linguistics, language and literature, or language and culture. Upper-level Spanish students will study the language and literature of Spain and Latin America. In the course of their studies, students are encouraged to take university classes in francophone Canada or abroad in countries where French or Spanish are national languages.

Please refer to the program website ([www.ulethbridge.ca/artsci/modern-languages](http://www.ulethbridge.ca/artsci/modern-languages)) for more information.

Number of courses required for the major: 16

**Required courses:**

French 2300 - Introduction to Modern Literature and Literary Analysis

French 3001 - Advanced Language I

Spanish 2300 - Introduction to Hispanic Literature and Literary Analysis

**One of:**

Spanish 3001 - Advanced Language

Spanish 3002 - Spanish for Professional Contexts

Four courses (12.0 credit hours) in French at the 3000/4000 level

Three courses (9.0 credit hours) in Spanish at the 3000/4000 level

Two additional courses (6.0 credit hours) in French

Three additional courses (9.0 credit hours) in Spanish

**Notes**

Students may **not** count either French 1000 (Beginners' French I) or Spanish 1000 (Beginners' Spanish I) among the minimum requirements for the major.

Students may replace one course in Spanish with one course in Hispanic Studies.

Students registering in introductory language courses must complete the Student Information Form to determine whether they are registered in the appropriate course. Students may be asked to write the Student Placement Test. Advanced placement may be granted to students who have acquired language skills outside of a formal academic environment. Please refer to [www.ulethbridge.ca/artsci/modern-languages/departement-modern-languages-placement-policy](http://www.ulethbridge.ca/artsci/modern-languages/departement-modern-languages-placement-policy) for more information.

It is recommended that students majoring in French/Spanish complete either the French or Spanish Visiting Student Program. Please refer to [www.ulethbridge.ca/artsci/modern-languages/visiting-student-programs-vsp](http://www.ulethbridge.ca/artsci/modern-languages/visiting-student-programs-vsp) for information on the Visiting Student Program.

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in French and Spanish. For more information see an academic advisor in the Student Program Services Office.

**u. General Major in the Humanities (B.A.)**

The General Major in the Humanities is a broad major that supports an ideal of liberal education.

Please refer to the program website ([www.ulethbridge.ca/artsci/general-majors](http://www.ulethbridge.ca/artsci/general-majors)) for more information.

Number of courses required for the major: 20

**Required courses:**

Five courses (15.0 credit hours) in each of three disciplinary streams chosen from the following list:

English - all courses

Fine Arts - all courses in Art, Art History, Cinema, Drama, Museum Studies, Music, Music Studio, and New Media

One of French, Japanese, or Spanish

Classical Languages<sup>1</sup> - all courses in Greek, Hebrew, and Latin

History - all courses

Indigenous Studies - all courses (including courses in Blackfoot and Cree)

Linguistics - all courses designated Humanities

Philosophy - all courses designated Humanities

Religious Studies - all courses

Four additional courses (12.0 credit hours) chosen from any of the Humanities disciplinary streams listed above

One course (3.0 credit hours) in a language other than English

Of the 20 courses (60.0 credit hours) required in the major, seven courses (21.0 credit hours) must be at the 3000/4000 level.

**Notes**

<sup>1</sup> Classical language courses (Greek, Hebrew, and Latin) may not be offered each term.

To determine if a given course in a disciplinary stream has a Humanities designation, see **List I: Fine Arts and Humanities Courses (p. 82)**.

If one of the disciplinary streams selected is a language discipline, students may use a course in a different language or a sixth course in the chosen stream to meet the language requirement.

**v. General Major in the Sciences (B.Sc.)**

The General Major in the Sciences is a broad major that supports an ideal of liberal education.

Please refer to the program website ([www.ulethbridge.ca/artsci/general-majors](http://www.ulethbridge.ca/artsci/general-majors)) for more information.

Number of courses required for the major: 20

**Required courses:**

Five courses (15.0 credit hours) in each of three disciplinary streams chosen from the following list:

- Archaeology - all courses designated Science
- Biological Sciences - all Biology courses
- Chemistry - all courses (including courses in Biochemistry)
- Computer Science - all courses
- Geography - all courses designated Science
- Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)
- Mathematics - all courses (including courses in Statistics)
- Neuroscience - all courses
- Physics - all courses (including courses in Astronomy and Engineering)
- Psychology - all courses designated Science

Four additional courses (12.0 credit hours) chosen from any of the Science disciplinary streams listed above

**One of (Science in Human Affairs):**

- Biochemistry 2300 - Elements of Human Nutrition
- Biology 2500 - Biology and Society
- Environmental Science 2000 - Fundamentals of Environmental Science
- Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences
- Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter
- Philosophy 3402 - Biomedical Ethics
- Physics 2020 - The Physics of Everyday Life

Of the 20 courses (60.0 credit hours) required in the major, seven courses (21.0 credit hours) must be at the 3000/4000 level.

**Notes**

To determine if a given course in a disciplinary stream has a Science designation, see **List III: Science Courses (p. 84)**.

Some of the Science in Human Affairs courses have prerequisites which may or may not be included in the major.

**w. General Major in the Social Sciences (B.A.)**

The General Major in the Social Sciences is a broad major that supports an ideal of liberal education.

Please refer to the program website ([www.ulethbridge.ca/artsci/general-majors](http://www.ulethbridge.ca/artsci/general-majors)) for more information.

Number of courses required for the major: 20

**Required courses:**

Five courses (15.0 credit hours) in each of three disciplinary streams chosen from the following list:

- Anthropology - all courses
- Archaeology - all courses designated Social Science
- Economics - all courses designated Social Science
- Geography - all courses designated Social Science
- History - all courses
- Indigenous Studies - all courses (courses in Blackfoot and Cree may not be included)
- Kinesiology - all courses designated Social Science (Physical Activity courses may not be included)
- Political Science - all courses designated Social Science
- Psychology - all courses designated Social Science
- Sociology - all courses
- Women and Gender Studies - all courses designated Social Science

Four additional courses (12.0 credit hours) chosen from any of the Social Sciences disciplinary streams listed above

**One of (Quantitative Methods):**

- Economics 2900 - Economics and Business Statistics
- Geography 2700 - Geographical Data and Analysis
- Psychology 2030 - Methods and Statistics B
- Sociology 2130 - Quantitative Research Practice
- Statistics 2780 - Statistical Inference

Of the 20 courses (60.0 credit hours) required in the major, seven courses (21.0 credit hours) must be at the 3000/4000 level.

**Notes**

To determine if a given course in a disciplinary stream has a Social Science designation, see **List II: Social Science Courses (p. 83)**.

The Quantitative Methods courses have prerequisites which may or may not be included in the major.

**x. Geography (B.A.)**

Department: Geography and Environment

Geography involves the study of human activities and natural systems with a focus on spatial relationships and the nature of places. The discipline stresses integration and synthesis, so students graduating with a major in Geography possess a firm understanding of environmental stewardship in the context of complex interrelationships between nature and humankind. Geography students also learn many practical skills and techniques essential to a diverse range of employment opportunities.

After completing a set of core foundational courses, students will select additional upper-level courses which focus on human-related systems and phenomena. Students with an interest in geographical techniques such as cartography, geographical information systems (GIS), or remote sensing can pursue those interests either by choosing such courses as options or by completing a specified set of courses to satisfy the Concentration in Geographical Information Science.

Please refer to the program website ([www.ulethbridge.ca/artsci/geography](http://www.ulethbridge.ca/artsci/geography)) for more information.

Number of courses required for the major: 19

**Required courses:**

Archaeology 1000 - Introduction to Archaeology  
 Environmental Science 2000 - Fundamentals of Environmental Science  
 Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography  
 Geography 2210 - Spatial Organization of Economic Activity  
 Geography 2535 - Introduction to Planning  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science  
 Geography 3075 - Environmental Resources Management  
 Geography 3255 - Qualitative Research Methods  
 Geography 4500 - Contemporary Issues and Problems in Planning (Series)  
 Geography 4900 - Seminar in Geographic Thought

**One of:**

Geography 2000 - World Regional Geography  
 Geography 2600 - Canada

**One of:**

Geography 2030 - Geomorphology  
 Geography 2090 - Biogeography  
 Geography 2300 - Weather and Climate

**Three of:**

Geography 3210 - Food Systems Analysis  
 Geography 3225/International Management 3225 - Industrial Location and Globalization of Enterprise  
 Geography 3230 - Urban Social Geography  
 Geography 3245 - Urbanization in Developing Countries  
 Geography 3333/Women and Gender Studies 3333 - Geography of Borders and Displacement  
 Geography 3605 - The Changing Geography of China

**One of:**

Geography 3700 - Mapping in the Cloud  
 Geography 3740 - Geographical Information Systems

One additional course (3.0 credit hours) in Geography at the 3000/4000 level

**Concentration: Geographical Information Science (optional)**

Geography majors in the B.A. degree program may declare a Concentration in Geographical Information Science.

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems

**Notes**

An alternate Geography course may be counted toward the concentration requirements provided (1) it is clearly related to Geographical Information Science and (2) it is approved by the Chair of the Department of Geography.

Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the major in Geography.

For students who complete all requirements, the Concentration in Geographical Information Science will be acknowledged on the official transcript.

**y. Geography (B.Sc.)**

Department: Geography and Environment

Geography involves the study of human activities and natural systems with a focus on spatial relationships and the nature of places. The discipline stresses integration and synthesis, so students graduating with a major in Geography possess a firm understanding of environmental stewardship in the context of complex interrelationships between nature and humankind. Geography students also learn many practical skills and techniques essential to a diverse range of employment opportunities.

After completing a set of core foundational courses, students will select additional upper-level courses dealing with physical dimensions of natural systems. Students with an interest in geographical techniques such as cartography, geographical information systems (GIS), or remote sensing can pursue those interests either by choosing such courses as options or by completing a specified set of courses to satisfy the Concentration in Geographical Information Science.

Please refer to the program website ([www.ulethbridge.ca/artsci/geography](http://www.ulethbridge.ca/artsci/geography)) for more information.

Number of courses required for the major: 19

**Required courses:**

Archaeology 1000 - Introduction to Archaeology  
 Environmental Science 2000 - Fundamentals of Environmental Science  
 Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science

**Two of (Human Geography):**

Geography 2000 - World Regional Geography  
 Geography 2210 - Spatial Organization of Economic Activity  
 Geography 2600 - Canada  
 Geography 3255 - Qualitative Research Methods  
 Geography 3333/Women and Gender Studies 3333 - Geography of Borders and Displacement

**Three of (Physical Geography):**

Geography 2030 - Geomorphology  
 Geography 2065 - Physical Geology  
 Geography 2090 - Biogeography  
 Geography 2300 - Weather and Climate

**One of (Field Course):**

Archaeology 3300 - Archaeological Field Work (Series)  
 Archaeology 3700 - Geoarchaeology and Landscape Analysis  
 Geography 3710 - Field Techniques in the Earth Sciences  
 Geography 3780 - Field Research in Geography  
 Geography 4710 - Remote Sensing Field Techniques

**One of (Spatial Science):**

Geography 3700 - Mapping in the Cloud  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems

**One of:**

Geography 4700 - Advanced Digital Mapping  
 Geography 4710 - Remote Sensing Field Techniques  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems  
 Geography 4753 - Seminar in Remote Sensing  
 Remote Sensing 4650 - Physics of Remote Sensing

**One of:**

Geography 4900 - Seminar in Geographic Thought  
 One course (3.0 credit hours) in Geography at the 4000 level with a Science designation

**One of:**

Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I  
 Statistics 1770 - Introduction to Probability and Statistics

Three additional courses (9.0 credit hours) in Geography at the 3000 or 4000 level with a Science designation

**Notes**

To determine if a given course in Geography has a Science designation, see **List III: Science Courses (p. 84)**.



**Concentration: Geographical Information Science (optional)**

Geography majors in the B.Sc. degree program may declare a Concentration in Geographical Information Science.

**Required Courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems

**Notes:**

An alternate Geography course may be counted toward the concentration requirements provided (1) it is clearly related to Geographical Information Science and (2) it is approved by the Chair of the Department of Geography.

Students may not double count Geography courses required for the Concentration in Geographical Information Science in fulfilling requirements for the major in Geography.

For students who complete all requirements, the Concentration in Geographical Information Science will be acknowledged on the official academic transcript.

Please note that the Concentration in Geographical Information Science is specifically excluded from combined degrees programs.

**z. History (B.A.)**

Department: History

History is a discipline that examines evidence to reconstruct and understand the past. It is our collective memory and our possible future. Encompassing a wide range of human events and historical conditions, history necessarily complements other disciplines in the University. The program offers instruction in aspects of the social, economic, political, and cultural histories of societies ranging from ancient Greece to modern-day Japan. Students pursuing a major in History will develop strong skills in critical reading, writing, and analysis.

Please refer to the program website ([www.ulethbridge.ca/artsci/history](http://www.ulethbridge.ca/artsci/history)) for more information.

Number of courses required for the major: 14

**Required courses:**

History 2222 - History in Practice

**One of:**

History 1000 - The Western World  
 History 1200 - World History

**Two of (European History):**

History 2001 - Main Themes in Ancient History  
 History 2100 - Main Themes in Medieval European History  
 History 2102 - Early Modern Europe - 1500-1750  
 History 2150 - The Politics of Europe - 1750-1914  
 History 2500 - Themes in British Social and Political History

**Two of (North American History):**

History 2600 - Main Themes in the History of the United States  
 History 2710 - Canada to 1867  
 History 2720 - Canada Since 1867

**One of (Global and Thematic History):**

History 2290 - Main Themes in East Asian History  
 History 2300 - Latin America  
 History 2800/Women and Gender Studies 2800 - History of Women  
 Religious Studies 2500 - Christianity

<sup>1</sup> Five courses (15.0 credit hours) in History at the 3000/4000 level

Two courses (6.0 credit hours) in History at the 4000 level, excluding History 4980 (Applied Studies), History 4990 (Independent Study), and History 4995 (Undergraduate Thesis)

**Notes**

<sup>1</sup> Economics 3170 (*Economic History of Canada*) may be used in place of one History course at the 3000 level.

The Department strongly advises students intending to pursue graduate studies to take History 4990 (Independent Study) or History 4995 (Undergraduate Thesis). History majors should meet with the Department Advisor once a term in order to ensure that an appropriate program is being planned.

**aa. Indigenous Studies (B.A.)**

Department: Indigenous Studies

The Indigenous Studies program was developed and formalized by representatives of southern Alberta's Native communities and the University of Lethbridge. The major in Indigenous Studies is multidisciplinary and comprehensive in nature and consists of courses in First Nations' culture, history, art, law, politics, language, literature and contemporary themes, all taught from a First Nations' perspective. It aims to foster the study of these various dynamics of North American Indigenous culture and to further a deeper awareness of First Nations' themes and perspectives.

Please refer to the program website ([www.ulethbridge.ca/artsci/indigenous-studies](http://www.ulethbridge.ca/artsci/indigenous-studies)) for more information.

Number of courses required for the major: 16

**Required courses:**

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

Indigenous Studies 1010 - Introduction to Indigenous Studies II: Global Perspectives

Indigenous Studies 1100/Linguistics 1100 - Language and Culture in Indigenous America

One course (3.0 credit hours) in Blackfoot or Cree

**One of (Language and Linguistics):**

Indigenous Studies 2750/Linguistics 2750 - Endangered Languages

Blackfoot 2210 - Structure of the Blackfoot Language

Cree 2210 - Structure of the Plains Cree Language

**One of (Art and Literature):**

Indigenous Studies 2300 - North American Indigenous Art History and Theory

Indigenous Studies 2350/Art 2350 - Indigenous Art Studio I

Indigenous Studies 2605/English 2605 - Introduction to Indigenous Literature

**One of (Culture and History)**

Indigenous Studies 2400 - Comparative Traditional Indigenous Economies

Indigenous Studies 2455 - Social Organization: Kinship

Indigenous Studies 2500 - Indigenous Histories of Canada

Indigenous Studies 2550 - Indigenous Histories of the United States

Indigenous Studies 3220 - Oral Histories/Life Stories

Indigenous Studies 3860 - Seminar in Indigenous North American Histories, Archaeologies, and Cultures (Series)

**One of (Law and Politics)**

Indigenous Studies 2100 - Indigenous Peoples and Law

Indigenous Studies 3500 - Indigenous Treaties in an International Context

Indigenous Studies 3550 - Settler Colonial Policies and Indigenous Sovereignities

**One of (Contemporary Themes)**

Indigenous Studies 2360 - Indigenous Popular Cultures

Indigenous Studies 2700 - Indigenous Women

Indigenous Studies 3700 - Indigenous Health

Four courses (12.0 credit hours) in Indigenous Studies at the 3000/4000 level

One course (3.0 credit hours) in Indigenous Studies at the 4000 level

Two additional courses (6.0 credit hours) in Indigenous Studies, Blackfoot, or Cree

**ab. Kinesiology (B.A.)**

Department: Kinesiology and Physical Education

Kinesiology is the study of human movement from a multidisciplinary perspective. Students who enrol in the Kinesiology major for the B.A. will take a broad range of theoretical courses in the social science and humanities dimensions of the discipline. Students are also required to complete physical activity courses as part of their program. The Kinesiology major for the B.A. offers students the opportunity to investigate those psychological, social, cultural, economic, and political influences that shape and limit opportunities for activity across the lifespan as well as to study the tremendous potential of sport and leisure activities to bring pleasure and meaning to individuals and community.

Please refer to the program website ([www.ulethbridge.ca/artsci/kinesiology](http://www.ulethbridge.ca/artsci/kinesiology)) for more information.

Number of courses required for the major: 19

**Required courses:**

Kinesiology 1000 - Wellness and Physical Activity

Kinesiology 2110 - Biophysical Perspectives

Kinesiology 2130 - Humanities Perspectives

Kinesiology 2140 - Psychological Perspectives

Kinesiology 2150 - Sociological Perspectives

Kinesiology 2160 - Management Perspectives

Kinesiology 2200 - Research Methodologies

Kinesiology 2600 - Functional Human Anatomy

Five courses (15.0 credit hours) in Kinesiology at the 3000/4000 level with a Humanities or Social Science designation, excluding Kinesiology 3980 and Kinesiology 4980 (Applied Studies)

Three courses (9.0 credit hours) in Kinesiology at the 4000 level with a Humanities or Social Science designation, excluding Kinesiology 4980 (Applied Studies)

Three courses (9.0 credit hours) in Physical Activity at the 3000 level

#### Notes

To determine if a given course in Kinesiology has a Humanities or Social Science designation, see **List I: Fine Arts and Humanities Courses (p. 82)** and **List II: Social Science Courses (p. 83)**.

No more than two Independent Study courses (Kinesiology 3990 or Kinesiology 4990; 6.0 credit hours) may be counted towards the major.

#### ac. Kinesiology (B.Sc.)

Department: Kinesiology and Physical Education

Kinesiology is the study of human movement from a multidisciplinary perspective. Students who enrol in the Kinesiology major for the B.Sc. will take a broad range of theoretical courses in the science dimensions of the discipline. Students are also required to complete physical activity courses as part of their program. The Kinesiology major for the B.Sc. offers students the opportunity to investigate the anatomical, biomechanical, neurological and physiological characteristics that underlie human movement across the spectrum from basic tasks such as reaching and walking to elite sport performance.

Please refer to the program website ([www.ulethbridge.ca/artsci/kinesiology](http://www.ulethbridge.ca/artsci/kinesiology)) for more information.

Number of courses required for the major: 24

#### Required courses:

Biology 1010 - Cellular Basis of Life

Kinesiology 1000 - Wellness and Physical Activity

Kinesiology 2200 - Research Methodologies

Kinesiology 2600 - Functional Human Anatomy

Kinesiology 2610 - Human Physiology

Kinesiology 2650 - Functional Biomechanics

Kinesiology 3500 - Nutrition and Physical Activity

Kinesiology 3610 - Exercise Physiology

Kinesiology 3630 - Growth, Development and Aging

Kinesiology 3650 - Biomechanics

Physics 1050 - Introduction to Biophysics

#### One of:

Chemistry 1000 - General Chemistry I

Chemistry 1110 - Chemistry for Life Sciences I

#### One of:

Neuroscience 2610 - Principles of Brain Structure and Function

Neuroscience 2620 - Principles of Behavioural Neuroscience

#### Two of:

Kinesiology 2130 - Humanities Perspectives

Kinesiology 2140 - Psychological Perspectives

Kinesiology 2150 - Sociological Perspectives

Kinesiology 2160 - Management Perspectives

Three additional courses (9.0 credit hours) in Kinesiology at the 3000/4000 level with a Science designation, excluding Kinesiology 3980 and Kinesiology 4980 (Applied Studies)

Two courses (6.0 credit hours) in Kinesiology at the 4000 level with a Science designation, excluding Kinesiology 4980 (Applied Studies)

One course (3.0 credit hours) in Mathematics at the 1000 level or higher

One course (3.0 credit hours) in Statistics at the 1000 level or higher

Two courses (6.0 credit hours) in Physical Activity at the 3000 level

#### Notes

To determine if a given course in Kinesiology has a Science designation, see **List III: Science Courses (p. 84)**.

No more than two Independent Study courses (Kinesiology 3990 or 4990; 6.0 credit hours) may be counted towards the major.

#### ad. Mathematics (B.Sc.)

Department: Mathematics and Computer Science

Mathematics is the study of structure and patterns in numbers and shapes. It is an active research area, providing a language, theories and models to solve complex problems across a wide variety of scientific, industrial and economic sectors. The program offers courses in four main areas: algebra, analysis, number theory and geometry, as well as statistics. Many students opt to combine mathematics with courses in physics, computer science, chemistry, economics, management or other areas of interest.

Please refer to the program website ([www.ulethbridge.ca/artsci/math-computer-science](http://www.ulethbridge.ca/artsci/math-computer-science)) for more information.

Number of courses required for the major: 19

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Computer Science 2620 - Fundamentals of Programming II  
 Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 2000 - Mathematical Concepts  
 Mathematics 3400 - Group and Ring Theory  
 Mathematics 3410 - Linear Algebra  
 Mathematics 3500 - Analysis I  
 Statistics 1770 - Introduction to Probability and Statistics  
 Statistics 3500 - Mathematical Probability

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II (recommended)

**One of the following Streams (a. or b.):****a. Standard Stream**

Mathematics 2570 - Calculus III  
 Mathematics 2580 - Calculus IV

**b. Accelerated Stream**

Mathematics 2575 - Accelerated Calculus III (recommended)  
 One additional course (3.0 credit hours) in Mathematics, Statistics, or Computer Science at the 2000 level or above

One additional course (3.0 credit hours) in Mathematics or Statistics at the 2000 level or above

<sup>1</sup> Three additional courses (9.0 credit hours) in Mathematics or Statistics at the 3000/4000 level

Two courses (6.0 credit hours) in Mathematics or Statistics at the 4000 level

**Notes**

<sup>1</sup> One of the additional 3000/4000-level courses may be replaced by a course from the following list:

Computer Science 3630 - Theoretical Foundations of Computing

Physics 3200 - Mechanics

Students who intend to take Physics 3200 as a course contributing to the Mathematics major should carefully plan their program to include the required prerequisites.

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in Computer Science, Mathematics, and Statistics.

Independent Study (1990, 2990, 3990, 4990) or Applied Study (2980, 3980, 4980) courses may not be used to meet the minimum Mathematics or Statistics course requirements above, except for the additional course for students completing the accelerated calculus stream. Mathematics 2090 (Number Systems) may not be used to meet any requirements for the major.

**ae. Music (B.A.)**

The major in Music for the B.A. is administered by the Faculty of Fine Arts. Please refer to the **Faculty of Fine Arts** section for more information on major requirements.

**af. Neuroscience (B.Sc.)**

Department: Neuroscience

The Neuroscience major explores how nervous systems work and requires courses from a range of departments. These courses investigate the processes by which information is transmitted within cells and between cells, and how particular neural systems produce perceptions, learning, memory, and behaviour. Brain and behavioural change during evolution, individual development, and pathology are all used to gain insight into how the nervous system functions.

Please refer to the program website ([www.ulethbridge.ca/artsci/neuroscience](http://www.ulethbridge.ca/artsci/neuroscience)) for more information.

Number of courses required for the major: 24

**Required courses:**

Biology 1010 - Cellular Basis of Life  
 Biology 1020 - Diversity of Life  
 Biology 2000 - Principles of Genetics  
 Neuroscience 2610 - Principles of Brain Structure and Function  
 Neuroscience 2620 - Principles of Behavioural Neuroscience  
 Neuroscience 3600 - Fundamental Neurobiology  
 Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception  
 Psychology 2330 - Learning and Cognition  
 Psychology 2700 - Behaviour and Evolution

**Two of:**

<sup>3</sup>Biochemistry 2000 - Introductory Biochemistry  
 Neuroscience 3610 - Human Neuropsychology  
 Neuroscience 3615 - Functional Neuroanatomy  
 Neuroscience 3625 - Cellular and Molecular Neurobiology

**One of:**

Neuroscience 3645 - Cognitive Neuroscience I  
 Neuroscience 3655 - Cognitive Neuroscience II  
 Neuroscience 3660 - Neurobiological Basis of Learning and Memory in the Mammal  
 Neuroscience 3710 - Behaviour and the Evolution of Brains

**One of:**

Neuroscience 4630 - Neuroscience (Series)  
 Neuroscience 4980 - Applied Studies  
 Neuroscience 4990 - Independent Study

<sup>1</sup>Neuroscience 4995 - Undergraduate Thesis (6.0 credit hours)

**One of:**

Philosophy 2220 - Philosophy of Mind  
<sup>2</sup>Philosophy 3402 - Biomedical Ethics

**One of:**

Physics 1000 - Introduction to Physics I  
 Physics 1050 - Introduction to Biophysics

**One of:**

One course (3.0 credit hours) in English at the 1000 level or higher  
 Writing 1000 - Introduction to Academic Writing

**One of:**

Neuroscience 3690 - Introduction to Programming and Statistics in MATLAB  
<sup>2</sup>Psychology 2030 - Methods and Statistics B  
 Statistics 1770 - Introduction to Probability and Statistics

Two courses (6.0 credit hours) in Neuroscience or Psychology at the 3000/4000 level with a Science designation (see **List III: Science Courses, p. 84**).

**One of the following Streams (a. or b.):****Stream a:**<sup>3</sup>

Biochemistry 2000 - Introductory Biochemistry  
 Chemistry 1110 - Chemistry for Life Sciences I  
 Chemistry 2120 - Chemistry for Life Sciences II  
 Two additional courses (6.0 credit hours) in Biology, Chemistry, Neuroscience, or Psychology at the 3000/4000 level with a Science Designation (see **List III: Science Courses, p. 84**)

**Stream b:**

Chemistry 1000 - General Chemistry I  
 Chemistry 2000 - General Chemistry II  
 Chemistry 2500 - Organic Chemistry I  
 Chemistry 2600 - Organic Chemistry II

**One of:**

Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I

**Recommended courses:**

Logic 1000 - Critical Thinking  
 Liberal Education 2200 - Problems and Puzzles

**Notes**

<sup>1</sup>If Neuroscience 4995 is chosen, the requirement for two additional courses at the 3000/4000 level in Neuroscience or Psychology with a Science designation is reduced to one additional course.

<sup>2</sup>This course has a prerequisite that is not required for the major.

<sup>3</sup>Students may not choose Stream a. if Biochemistry 2000 was chosen as part of the "Two of" list.

It is strongly recommended that students who are planning to pursue graduate studies in the Neurosciences consider the Undergraduate Thesis option and include the following courses in their program:

Neuroscience 3605 - Research Methods in Neuroscience  
 Neuroscience 3690 - Introduction to Programming and Statistics in MATLAB  
 Psychology 3400 - Advanced Research Design and Data Analysis

**ag. Philosophy (B.A.)**

Department: Philosophy

Philosophy means “love of wisdom.” Philosophers study the deep intellectual problems that underlie or unify other disciplines in the sciences and humanities. Courses in the reality stream inquire into the nature of knowledge, mind and matter, space and time, language and mathematics, religious beliefs, and the basis of science. Courses in the values stream probe the distinction between right and wrong, the nature of beauty, the assumptions behind political theories, and current ethical dilemmas. Logic studies the art and science of reasoning. All philosophy and logic courses place strong emphasis on developing the skills of clear writing and sound argumentation, and the ability to see beneath the surface of the apparently obvious.

Please refer to the program website ([www.ulethbridge.ca/artsci/philosophy](http://www.ulethbridge.ca/artsci/philosophy)) for more information.

Number of courses required for the major: 13

**Required courses:****Two of (Logic):**

Logic 1000 - Critical Thinking  
 Logic 2003 - Symbolic Logic I  
 Logic 3003 - Symbolic Logic II

**Two of (History of Philosophy):**

Philosophy 2010 - Ancient Philosophy  
 Philosophy 2030 - 17th-Century Philosophy: Descartes to Leibniz  
 Philosophy 3350 - Analytic Philosophy  
 Philosophy 3409 - 18th-Century Philosophy: Leibniz to Kant  
 Philosophy 3420 - Wittgenstein

**One of (Philosophy of Values):**

Philosophy 2001 - Introduction to Ethics  
 Philosophy 3401 - Social and Political Philosophy  
 Philosophy 3410 - Advanced Ethics

**One of (Philosophy of Values):**

Philosophy 2150 - Philosophy of Art  
 Philosophy 2236 - Environmental Philosophy  
 Philosophy 3402 - Biomedical Ethics  
 Philosophy 3404 - Philosophy of Law  
 Philosophy 3411 - Game Theory in Philosophy  
 Philosophy 3413 - Feminist Philosophy  
 Philosophy 3450 - Philosophy of War

**Two of (Philosophy of Reality):**

Philosophy 2002 - Belief, Truth, and Paradox  
 Philosophy 2210 - Philosophy of Religion  
 Philosophy 2220 - Philosophy of Mind  
 Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences  
 Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter  
 Philosophy 3260 - Metaphysics  
 Philosophy 3270 - Theory of Knowledge  
 Philosophy 3280 - Philosophy of Language

One course (3.0 credit hours) in Philosophy or Logic at the 4000 level

Four additional courses (12.0 credit hours) in Philosophy or Logic

**Notes**

Offerings in the Philosophy 2000 and Philosophy 3000 series may be assigned to one of the lists (History, Values, or Reality) at the time of scheduling. Please refer to the current term timetable.

Students should take courses from as many instructors as possible, since the views of instructors on any given topic may vary significantly. Those intending to go on to graduate or professional schools should get more specific advice, particularly about Independent Study.

**ah. Physics (B.Sc.)**

Department: Physics and Astronomy

Physics is the study of matter and energy at all scales, from the sub-nuclear to the dimensions of the universe. It is the fundamental science - all other sciences and technologies rely on the principles of physics. Physics involves observing and understanding natural phenomena evident in the world around us: the seasons, the motion of objects, the flight of birds, the night sky, and the weather. The curriculum provides a comprehensive Physics major, built on a foundation of courses in the first two years which lead to more advanced and specialized areas in the senior years, preparing students for postgraduate studies, or for careers in academia, industry and the public sector.

Please refer to the program website ([www.ulethbridge.ca/artsci/physics-astronomy](http://www.ulethbridge.ca/artsci/physics-astronomy)) for more information.

Number of courses required for the major: 26

**Required courses:**

Chemistry 1000 - General Chemistry I  
Computer Science 1620 - Fundamentals of Programming I  
Mathematics 1410 - Elementary Linear Algebra  
Physics 2000 - Introduction to Physics II  
Physics 2120 - Introduction to Physics III  
Physics 2130 - Waves, Optics and Sound  
Physics 2150 - Quantum Mechanics I  
Physics 2800 - Methods in Mathematical Physics  
Physics 2925 - Introduction to Experimental Physics  
Physics 3150 - Quantum Mechanics II  
Physics 3175 - Electricity and Magnetism  
Physics 3200 - Mechanics  
Physics 3400 - Thermal and Statistical Physics  
Physics 3750 - Contemporary Physics  
Physics 3800 - Methods of Theoretical Physics  
Physics 3925 - Experimental Physics  
Physics 4175 - The Electromagnetic Interaction

**One of:**

Mathematics 1560 - Calculus I  
Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II  
Mathematics 2565 - Accelerated Calculus II (recommended)

**One of the following Streams (a. or b.):****a. Standard Stream:**

Mathematics 2570 - Calculus III  
Mathematics 2580 - Calculus IV

**b. Accelerated Stream:**

Mathematics 2575 - Accelerated Calculus III (recommended)  
<sup>1</sup> One additional course (3.0 credit hours) in Mathematics

**One of:**

Biology 1010 - Cellular Basis of Life  
Biology 1020 - Diversity of Life

**One of:**

Physics 1000 - Introduction to Physics I  
Physics 1050 - Introduction to Biophysics  
<sup>2</sup> Engineering 2060 - Engineering Mechanics

**One of:**

Physics 4150 - Quantum Mechanics III  
Physics 4200 - Advanced Mechanics

**Two of:<sup>3</sup>**

Physics 3650 - Optics  
Physics 3840 - Introduction to Computational Physics  
Physics 3900 - Intermediate Experimental Physics (Series)  
Physics 4000 - Advanced Studies in Physics (Series)  
Physics 4100 - Nuclear and Particle Physics  
Physics 4250 - Solid State Physics

**Notes**

<sup>1</sup> Mathematics 3600 (Differential Equations I) is recommended.

<sup>2</sup> Engineering 2000 and Mathematics 1565 are prerequisites for Engineering 2060.

<sup>3</sup> Offerings in Physics 3850 (Topics) and Physics 4850 (Topics) and either Physics 4150 or Physics 4200 (if not used above) may be used to satisfy this requirement.

Since a number of courses are offered only on alternate years, students are advised to plan carefully to include the desired courses. In all cases, students (especially those planning for advanced studies in Physics) are encouraged to seek advice on their programs from any member of the Department of Physics and Astronomy.

It is recommended that students majoring in Physics include in their program courses in Biology, Chemistry, Computer Science, and Mathematics.

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in Physics and Mathematics.

**Concentration: Theoretical Physics (optional)**

Students completing the major in Physics for the B.Sc. may declare a concentration in Theoretical Physics.

**Requirements:**

Students may be considered for entry to the Concentration in Theoretical Physics after completion of a minimum of 10 courses (30.0 credit hours) in Physics. A minimum GPA of 3.20 calculated on all Physics courses, and a minimum cumulative GPA of 3.00 is required for entry to the concentration.

**Continuation:**

Students admitted to the Concentration in Theoretical Physics must maintain a cumulative GPA of 3.00. Students who fall below 3.00 will be removed from the concentration.

**Required courses:**

<sup>1</sup> Physics 3840 - Introduction to Computational Physics

**One of:**

Physics 4150 - Quantum Mechanics III

Physics 4200 - Advanced Mechanics

**Three of:**

Physics 4000 - Advanced Studies in Physics (Theoretical Physics I)

Physics 4000 - Advanced Studies in Physics (Theoretical Physics II)

Physics 4100 - Nuclear and Particle Physics

Physics 4250 - Solid State Physics

Physics 4995 - Undergraduate Thesis (6.0 credit hours)

**Notes**

<sup>1</sup> Students who complete Physics 3840 as part of the major may substitute Mathematics 3600 (Differential Equations I) in the concentration.

An alternate Physics course may be counted toward the concentration requirements provided (1) it is clearly related to Theoretical Physics and (2) it is approved by the Chair of the Department of Physics and Astronomy.

Students may not double count Physics courses required for the Concentration in Theoretical Physics in fulfilling requirements for the major in Physics.

For students who complete all requirements, the Concentration in Theoretical Physics will be acknowledged on the official academic transcript.

**ai. Political Science (B.A.)**

Department: Political Science

Political Science is the study of government institutions, political behaviour, and political theory. You need no political ambitions to take it. Political Science is both empirical (qualitative and quantitative) and theoretical. Empirically the focus is on Canadian politics (from national to local), comparative politics (of differing regimes in selected regions of the world), and international relations. Theoretically the focus is on the ideas and visions of justice and the good life that political leaders and citizens aspire to and even stake their lives on. Emphasis is placed throughout on critical reading, writing, and analytical skills, encompassing the study of a wide array of materials, including legal, philosophical, literary, and historical documents, as well as statistical analysis.

Please refer to the program website ([www.ulethbridge.ca/artsci/political-science](http://www.ulethbridge.ca/artsci/political-science)) for more information.

Number of courses required for the major: 13

**Required courses:**

Political Science 1000 - Introduction to Political Science

Political Science 2110 - International Relations

Political Science 2210 - Canadian Politics and Government

Political Science 2310 - Comparative Politics and Government

Political Science 2511 - Introduction to Political Theory

Political Science 2610 - Introductory Research Methods

Five courses (15.0 credit hours) in Political Science at the 3000/4000 level

<sup>1</sup> Two courses (6.0 credit hours) in Political Science at the 4000 level, excluding Political Science 4980 (Applied Study) and Political Science 4990 (Independent Study)

**Notes**

<sup>1</sup> Students completing Political Science 4995 (6.0 credit hours) as part of this requirement will still need at least one classroom-based 4000-level Political Science course (3.0 credit hours).

**aj. Psychology (B.A.)**

Department: Psychology

Psychology seeks to understand the causes of behaviour in humans and other animals. Such behaviour can range from the automatic, unconscious, and reflexive sucking and grasping behaviours of infants through largely unconscious behaviours such as finding food and choosing a mate; to sophisticated, conscious behaviours such as medical decision making. Students will investigate the nature of human and animal thought processes as well as the evolutionary, social, and cultural factors that frame the development of human capacities. We consider the best preparation, at the undergraduate level, for graduate study in all areas of psychology, whether research or applied, to be a strong and broad background in experimental psychology.



Please refer to the program website ([www.ulethbridge.ca/artsci/psychology](http://www.ulethbridge.ca/artsci/psychology)) for more information.

Number of courses required for the major: 18

**Required courses:**

Neuroscience 2610 - Principles of Brain Structure and Function  
Neuroscience 2620 - Principles of Behavioural Neuroscience  
Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception  
Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal  
Psychology 1030 - Methods and Statistics A  
Psychology 2005 - Psychological Sketches: Straight from the Researchers  
Psychology 2030 - Methods and Statistics B  
Psychology 2110 - Introduction to Child Development  
Psychology 2330 - Learning and Cognition  
Psychology 2700 - Behaviour and Evolution  
Psychology 2800 - Social Psychology

**One of (Developmental):**

Psychology 3000 - Issues in Psychology (Series)  
Psychology 3105 - Adolescent Development  
Psychology 3120 - Psychology of Aging

**One of (Sociocultural):**

Psychology 3240/Linguistics 3240 - Psychology of Language  
Psychology 3330 - Social Cognition  
Psychology 3805 - Social Learning and Culture  
Psychology 3825 - Human Sociality: Ourselves and Others  
Psychology 3845 - Issues in Sexuality

**One of (Abnormal):**

Psychology 3130 - Developmental Psychopathology  
Psychology 3500 - Abnormal Psychology  
Psychology 3910 - Psychology of Criminal Behaviour

**One of:**

Psychology 4210 - Speech Development  
Psychology 4220 - The Psychology of Choice  
Psychology 4460 - Celluloid Psychology  
Psychology 4505 - Biological Bases of Mental Disorders  
Psychology 4520 - Neurodevelopmental Disorders  
Psychology 4540 - Current Issues in Psychopathology  
Psychology 4550 - Abnormal Psychology (Series)  
Psychology 4710 - Human Health, Behaviour, and Social Technologies  
Psychology 4830 - Cultural Organisms

Three additional courses (9.0 credit hours) in Psychology at the 3000 or 4000 level, at least one of which must be designated as Social Science

**Notes**

To determine if a given course has a Social Science designation, see List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

Students who wish to pursue graduate studies in Psychology should consider the Undergraduate Thesis option and should take Psychology 3400. Students who wish to pursue graduate studies in Neuroscience should, in addition, take Neuroscience 3605, and may wish to consider a major in Neuroscience (see the Neuroscience major earlier in this section).

**Concentration: Animal Behaviour (optional)**

Students completing the major in Psychology for the B.A. may declare a Concentration in Animal Behaviour.

**Admission Requirements:**

Applicants must have completed the following courses with a minimum grade of “B” in each, and present a minimum GPA of 3.00 (calculated on all completed university-level courses) to be eligible for the concentration:

Neuroscience 2610 - Principles of Brain Structure and Function  
Neuroscience 2620 - Principles of Behavioural Neuroscience  
Psychology 2700 - Behaviour and Evolution

**Required courses:**

**Four of:**

Biology 3300 - Evolution  
Biology 4740 - Behavioural Ecology  
Neuroscience 3660 - Neurobiological Basis of Learning and Memory in the Mammal  
Neuroscience 3710 - Behaviour and the Evolution of Brains  
Neuroscience 3720 - Play Behaviour  
Neuroscience 4600 - Understanding Behaviour

Psychology 3525 - Hormones and Behaviour  
 Psychology 3760 - Animal Communication  
 Psychology 3770 - Primate Lives and Human Cognitive Evolution  
 Psychology 3780 - Animal and Human Personalities  
 Psychology 3790 - Human Behavioural Ecology  
 Psychology 3805 - Social Learning and Culture

One Independent Study or Applied Studies course at the 3000 or 4000 level with a focus on animal behaviour

### Notes

Topics courses (3850 or 4850) may be counted towards the concentration provided (1) they are clearly related to animal behaviour and (2) they are approved by the Chair of Psychology.

The Independent Study or Applied Study must be completed with a mentor from the approved mentors list. Please contact the Department of Psychology for more information.

Students may not double count courses required for the Concentration in Animal Behaviour in fulfilling requirements for the major. In such cases, students must select another option.

For students who complete all requirements, the Concentration in Animal Behaviour will be acknowledged on the official academic transcript.

### ak. Psychology (B.Sc.)

Department: Psychology

Psychology seeks to understand the causes of behaviour in humans and other animals. Such behaviour can range from the automatic, unconscious, and reflexive sucking and grasping behaviours of infants through largely unconscious behaviours such as finding food and choosing a mate; to sophisticated, conscious behaviours such as medical decision making. Students will investigate the nature of human and animal thought processes as well as the evolutionary, social, and cultural factors that frame the development of human capacities. We consider the best preparation, at the undergraduate level, for graduate study in all areas of psychology, whether research or applied, to be a strong and broad background in experimental psychology.

Please refer to the program website ([www.ulethbridge.ca/artsci/psychology](http://www.ulethbridge.ca/artsci/psychology)) for more information.

Number of courses required for the major: 18

### Required courses:

Neuroscience 2610 - Principles of Brain Structure and Function  
 Neuroscience 2620 - Principles of Behavioural Neuroscience  
 Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception  
 Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal  
 Psychology 1030 - Methods and Statistics A  
 Psychology 2005 - Psychological Sketches: Straight from the Researchers  
 Psychology 2030 - Methods and Statistics B  
 Psychology 2110 - Introduction to Child Development  
 Psychology 2330 - Learning and Cognition  
 Psychology 2700 - Behaviour and Evolution  
 Psychology 2800 - Social Psychology

### One of (Evolution):

Biology 3300 - Evolution  
 Neuroscience 3710 - Behaviour and the Evolution of Brains  
 Neuroscience 3720 - Play Behaviour  
 Psychology 3635 - Evolution and Psychobiology of Religious Behaviour  
 Psychology 3760 - Animal Communication  
 Psychology 3790 - Human Behavioural Ecology

### One of (Mechanisms):

Neuroscience 3600 - Fundamental Neurobiology  
 Neuroscience 3610 - Human Neuropsychology  
 Neuroscience 3615 - Functional Neuroanatomy  
 Neuroscience 3640 - Brain Plasticity and Memory  
 Psychology 3525 - Hormones and Behaviour  
 Psychology 3535 - Drugs and Behaviour

### One of (Cognition and Perception):

Neuroscience 3645 - Cognitive Neuroscience I  
 Psychology 3050 - Human Cognition  
 Psychology 3360 - Sensation and Perception  
 Psychology 3770 - Primate Lives and Human Cognitive Evolution

### One of:

Psychology 4210 - Speech Development  
 Psychology 4220 - The Psychology of Choice  
 Psychology 4460 - Celluloid Psychology

Psychology 4505 - Biological Bases of Mental Disorders  
 Psychology 4520 - Neurodevelopmental Disorders  
 Psychology 4540 - Current Issues in Psychopathology  
 Psychology 4550 - Abnormal Psychology (Series)  
 Psychology 4710 - Human Health, Behaviour, and Social Technologies  
 Psychology 4830 - Cultural Organisms

Three additional courses (9.0 credit hours) in Psychology or Neuroscience at the 3000 or 4000 level, at least one of which must be designated as Science

### Notes

To determine if a given course has a Science designation, see List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

Students who wish to pursue graduate studies in Psychology should consider the Undergraduate Thesis option and should take Psychology 3400. Students who wish to pursue graduate studies in Neuroscience should, in addition, take Neuroscience 3605, and may wish to consider a major in Neuroscience (see the Neuroscience major earlier in this section).

### Concentration: Animal Behaviour (optional)

Students completing the major in Psychology for the B.Sc. may declare a Concentration in Animal Behaviour.

### Admission Requirements:

Applicants must have completed the following courses with a minimum grade of “B” in each, and present a minimum GPA of 3.00 (calculated on all completed university-level courses) to be eligible for the concentration:

Neuroscience 2610 - Principles of Brain Structure and Function  
 Neuroscience 2620 - Principles of Behavioural Neuroscience  
 Psychology 2700 - Behaviour and Evolution

### Required courses:

#### Four of:

Biology 3300 - Evolution  
 Biology 4740 - Behavioural Ecology  
 Neuroscience 3660 - Neurobiological Basis of Learning and Memory in the Mammal  
 Neuroscience 3710 - Behaviour and the Evolution of Brains  
 Neuroscience 3720 - Play Behaviour  
 Neuroscience 4600 - Understanding Behaviour  
 Psychology 3525 - Hormones and Behaviour  
 Psychology 3760 - Animal Communication  
 Psychology 3770 - Primate Lives and Human Cognitive Evolution  
 Psychology 3780 - Animal and Human Personalities  
 Psychology 3790 - Human Behavioural Ecology  
 Psychology 3805 - Social Learning and Culture

One Independent Study or Applied Studies course at the 3000 or 4000 level with a focus on animal behaviour

### Notes

Topics courses (3850 or 4850) may be counted towards the concentration provided (1) they are clearly related to animal behaviour and (2) they are approved by the Chair of Psychology.

The Independent Study or Applied Study must be completed with a mentor from the approved mentors list. Please contact the Department of Psychology for more information.

Students may not double count courses required for the Concentration in Animal Behaviour in fulfilling requirements for the major. In such cases, students must select another option.

For students who complete all requirements, the Concentration in Animal Behaviour will be acknowledged on the official academic transcript.

### al. Religious Studies (B.A.)

Department: Religious Studies

Religious Studies aims to enhance critical understanding of the phenomenon of religion and the diversity of religious experience and expression from antiquity to the present in both Eastern and Western traditions. This field of study uses a wide range of tools and methods to describe, analyze, and understand religion in human experience. Fundamental issues such as belief, texts, worship, ritual, concepts of the divine, the human condition, and the historical development of particular religions are examined. The academic study of religion requires a measure of neutrality, whereby no particular religious tradition is privileged. A major in Religious Studies provides a broad-based understanding of the diverse religious world and requires students to study general themes and issues as well as specific traditions from both Eastern and Western religions.

Please refer to the program website ([www.ulethbridge.ca/artsci/religious-studies](http://www.ulethbridge.ca/artsci/religious-studies)) for more information.

Number of courses required for the major: 14

**Required courses:**

Religious Studies 1000 - Introduction to World Religions  
 Religious Studies 2001 - Religion, Worldviews, and Identity  
 Religious Studies 4001 - Concepts and Methods in the Study of Religion

**One of (Eastern Religions):**

Religious Studies 2100 - The Hindu Tradition  
 Religious Studies 2200 - The Buddhist Tradition  
 Religious Studies 2330 - Chinese Religions  
 Religious Studies 2360 - Japanese Religions

**One of (Western Religions):**

Religious Studies 2400 - Judaism  
 Religious Studies 2450 - Bible Survey  
 Religious Studies 2500 - Christianity  
 Religious Studies 2600 - Islam

**One of:**

Religious Studies 4000 - Seminars in Religious Studies (Series)  
 Religious Studies 4110 - Seminars in Eastern Religions (Series)  
 Religious Studies 4400 - Seminars in Western Religions (Series)

**One of:<sup>1</sup>**

Anthropology 2550 - Anthropology of Religion  
 Anthropology 3500 - Ritual, Practice, and Performance  
 Archaeology 3171 - Ancient Israel  
 Hebrew 1000 - Elementary Hebrew I  
 Hebrew 1100 - Elementary Hebrew II  
 History 3007 - Greek and Roman Mythology  
 History 3103 - The Crusades  
 History 3402 - The Reformation  
 Indigenous Studies 2000 - Native American Philosophy  
 Indigenous Studies 3000 - Native American Philosophy - Advanced  
 Latin 1000 - Elementary Latin I  
 Latin 1100 - Elementary Latin II  
 Philosophy 2010 - Ancient Philosophy  
 Philosophy 2210 - Philosophy of Religion  
 Philosophy 3260 - Metaphysics  
 Political Science 3500 - Pre-Modern Political Thought (Series)  
 Political Science 3525 - Politics of Reason and Revelation  
 Sociology 3330 - Sociology of Religion

Two additional courses (6.0 credit hours) in Religious Studies at the 2000 level selected from Eastern Religions or Western Religions

<sup>2</sup> Five additional courses (15.0 credit hours) in Religious Studies at the 3000/4000 level, excluding Religious Studies 3980 and Religious Studies 4980 (Applied Studies), and Religious Studies 4995 (Undergraduate Thesis)

**Notes**

<sup>1</sup> Most courses in this list have prerequisites that are not part of the major.

<sup>2</sup> A maximum of one Independent Study course (3.0 credit hours) may be used to fulfill the 3000/4000-level requirement.

From time to time, Topics courses in other disciplines will address the subject of religion. These will be considered for credit toward a Religious Studies major on an individual basis and must be approved by the Department Chair.

**am. Remote Sensing (B.Sc.)**

Departments: Geography and Environment, and Physics and Astronomy

Remote Sensing involves the acquisition and analysis of photographs and images from airplanes, satellites, and other platforms for obtaining important information about the Earth's land, oceans, and atmosphere, as well as other planets and bodies. The Remote Sensing major provides applied training in laboratory and field settings coupled with a solid theoretical and experimental foundation. This is the only remote sensing program of its kind in Canada; therefore, graduates have unique qualifications for direct employment in private industry, government, and universities, as well as for entry to advanced graduate-level studies.

Please refer to the program website ([www.ulethbridge.ca/artsci/remote-sensing](http://www.ulethbridge.ca/artsci/remote-sensing)) for more information.

Number of courses required for the major: 21

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Geography 1000 - Introduction to Physical Geography  
 Geography 2030 - Geomorphology  
 Geography 2300 - Weather and Climate  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science  
 Geography 3720 - Remote Sensing

Geography 4725 - Advanced Remote Sensing  
 Mathematics 1410 - Elementary Linear Algebra  
 Physics 2000 - Introduction to Physics II  
 Physics 2120 - Introduction to Physics III  
 Physics 2130 - Waves, Optics and Sound  
 Physics 2925 - Introduction to Experimental Physics  
 Physics 3650 - Optics  
 Remote Sensing 4650 - Physics of Remote Sensing

**One of:**

Geography 4710 - Remote Sensing Field Techniques  
 Geography 4751 - Spatial Modelling  
 Geography 4753 - Seminar in Remote Sensing

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II (recommended)

**One of the following Streams (a. or b.):**

**a. Standard Stream:**

Mathematics 2570 - Calculus III  
 Mathematics 2580 - Calculus IV

**b. Accelerated Stream:**

Mathematics 2575 - Accelerated Calculus III (recommended)  
 One additional course (3.0 credit hours) in Mathematics

**One of:**

Physics 1000 - Introduction to Physics I  
 Physics 1050 - Introduction to Biophysics  
 Engineering 2060 - Engineering Mechanics

**Recommended courses:**

Geography 3710 - Field Techniques in the Earth Sciences  
 Geography 3740 - Geographical Information Systems  
 Any of Geography 4710, Geography 4751, and Geography 4753 not selected in the major  
 Physics 3175 - Electricity and Magnetism  
 Physics 3840 - Introduction to Computational Physics  
<sup>1</sup> Computer Science 3620 - Data Structures and Algorithms  
<sup>2</sup> Computer Science 3710 - Computer Graphics  
<sup>3</sup> Statistics 2780 - Statistical Inference

**Notes**

<sup>1</sup>Prerequisites required: Computer Science 1820 and Computer Science 2620.

<sup>2</sup>Prerequisite required: Computer Science 2620.

<sup>3</sup>Prerequisite required: Statistics 1770.

**an. Sociology (B.A.)**

Department: Sociology

Sociology provides the conceptual and methodological tools with which to understand society. Its primary goal is to stimulate sociological thinking, which involves the application of imagination and critical analysis to the many facets of social life. Ideally, this encourages not only the development of analytical insight, but also the application of Sociology to social problems and issues.

The program provides instruction for both the liberal arts student and the student planning advanced studies or a career related to Sociology. A wide range of courses is offered in sociological theory, methods and topics reflecting a variety of contemporary social issues.

Please refer to the program website ([www.ulethbridge.ca/artsci/sociology](http://www.ulethbridge.ca/artsci/sociology)) for more information.

Number of courses required for the major: 16

**Required courses:**

Sociology 1000 - Introduction to Sociology  
 Sociology 2050 - Social Inequality  
 Sociology 2100 - Research Methodology  
 Sociology 2130 - Quantitative Research Practice  
 Sociology 2300 - Committing Sociology  
 Sociology 3120 - Qualitative Research Methods  
 Sociology 3210 - Classical Sociological Theory  
 Sociology 3220 - Contemporary Sociological Theory  
 Five additional courses (15.0 credit hours) in Sociology at the 3000/4000 level  
 Three courses (9.0 credit hours) in Sociology at the 4000 level

**ao. Urban and Regional Studies (B.A.)**

The major in Urban and Regional Studies includes courses in disciplines that have traditionally focused on cities, such as Anthropology, Economics, Geography, Political Science, Sociology, and Statistics. It provides a broad range of conceptual and practical tools for students to understand and play a role in the planning, administration, and governance of human settlements from towns to metropolitan regions. Courses delve into the physical, social, spatial, economic, political, and planning factors that shape urban areas. Topics such as architecture and the city, urban and regional planning, urban systems, globalization, and issues such as immigration, aging, homelessness, and environmental sustainability may be included.

Please refer to the program website ([www.ulethbridge.ca/artsci/urban-regional-studies](http://www.ulethbridge.ca/artsci/urban-regional-studies)) for more information.

Number of courses required for the major: 21

**Required core (10 courses):**

Geography 2535 - Introduction to Planning

Geography 4500 - Contemporary Issues and Problems in Planning (Series)

**Three of (Introductory Courses):**

Anthropology 1000 - The Anthropological Perspective

Economics 1010 - Introduction to Microeconomics

Economics 1012 - Introduction to Macroeconomics

Geography 1000 - Introduction to Physical Geography

Geography 1200 - Introduction to Human Geography

History 1000 - The Western World or History 1200 - World History

Political Science 1000 - Introduction to Political Science

Sociology 1000 - Introduction to Sociology

**Two of (Urban Studies):**

Anthropology 3280 - Urban Anthropology

Geography 3230 - Urban Social Geography

Geography 3245 - Urbanization in Developing Countries

**One of (Statistical Methods):**

Geography 2700 - Geographical Data and Analysis

Sociology 2130 - Quantitative Research Practice

Statistics 1770 - Introduction to Probability and Statistics

**One of (Research Techniques):**

Economics 2900 - Economics and Business Statistics

Geography 2735 - Introduction to Geographical Information Science

Political Science 2610 - Introductory Research Methods

Sociology 2100 - Research Methodology

Sociology 3110 - Survey Research

Sociology 3120 - Qualitative Research Methods

Statistics 2780 - Statistical Inference

**One of:**

One course (3.0 credit hours) in English at the 1000 level or higher

Writing 1000 - Introduction to Academic Writing

**Independent Study or Applied Studies (one course)**

One Independent Study or Applied Studies course at the 3000/4000 level. This course must be (1) clearly related to Urban and Regional Studies, (2) multidisciplinary, and (3) approved by the Urban and Regional Studies Coordinator.

**Options (10 courses):<sup>1</sup>**

The ten options courses (30.0 credit hours) must draw from **at least two and no more than three** of the following disciplines. At least six of these courses (18.0 credit hours) must be at the 3000/4000 level.

**1. Anthropology**

Anthropology 2210 - Cultures of the World (Series)

Anthropology 3280 - Urban Anthropology

**2. Economics**

Economics 2750 - Quantitative Methods in Economics

Economics 2900 - Economics and Business Statistics

Economics 3010 - Intermediate Microeconomic Theory

Economics 3012 - Intermediate Macroeconomic Theory

Economics 3750 - Economics of Public Spending

Economics 3950 - Econometrics I

**3. Geography**

Geography 1200 - Introduction to Human Geography

Geography 2210 - Spatial Organization of Economic Activity

Geography 3075 - Environmental Resources Management

Geography 3225/International Management 3225 - Industrial Location and Globalization of Enterprise

Geography 3230 - Urban Social Geography  
 Geography 3245 - Urbanization in Developing Countries  
 Geography 3750 - GIS Applications in Human Geography  
 Geography 4220 - Advanced Economic Geography (Series)  
 Geography 4240 - Advanced Urban Geography (Series)  
 Additional offerings of Geography 4500 - Contemporary Issues and Problems in Planning (Series)

4. **History**

History 2001 - Main Themes in Ancient History

5. **Political Science**

Political Science 2210 - Canadian Politics and Government  
 Political Science 2511 - Introduction to Political Theory  
 Political Science 3210 - Local Government and Politics  
 Political Science 3250 - Alberta Politics and Government  
 Political Science 3260 - Canadian Public Policy  
 Political Science 3400 - Public Administration  
 Political Science 3511 - Political Thought Since 1500 (Series)

6. **Sociology**

Sociology 2010 - Canadian Society  
 Sociology 2600 - The Individual and Society  
 Sociology 3020 - Social Problems  
 Sociology 3050 - Sociology of Race and Ethnicity  
 Sociology 3210 - Classical Sociological Theory  
 Sociology 3220 - Contemporary Sociological Theory

**Notes**

<sup>1</sup> Many of the Options courses require prerequisites, thus students should choose courses with this in mind.

A maximum of two courses (6.0 credit hours) chosen from Applied Studies, Independent Study, Series, and Topics courses in any of the above disciplines may be counted toward the Option courses in the major provided (1) they are clearly related to Urban and Regional Studies and (2) they are approved by the Urban and Regional Studies Coordinator.

**ap. Women and Gender Studies (B.A.)**

Department: Women and Gender Studies

Women and Gender Studies examines the historical and contemporary conditions of women and men in society. By using feminist theories and research methodologies, students will broaden their knowledge of various power relations shaping women's lives, bodies, experiences, labour, and scholarship. Students will explore feminism as an important influence in political and societal change. The program draws on a vibrant community of women scholars, contemporary research, and activism inside and outside the University to explore a breadth of social issues. In Women and Gender Studies classes, students will develop an in-depth understanding of how current and historical events, ideas, and institutions have been structured by gender, ethnicity, race, age, ability, class, and sexuality.

Please refer to the program website ([www.ulethbridge.ca/artsci/women-gender-studies](http://www.ulethbridge.ca/artsci/women-gender-studies)) for more information.

Number of courses required for the major: 13

**Required courses:**

Women and Gender Studies 1000 - Introduction to Women and Gender Studies  
 Women and Gender Studies 2300 - Feminist Theoretical Frameworks  
 Women and Gender Studies 2600 - Activism and Advocacy  
 Women and Gender Studies 2700 - Feminist Approaches to Research  
 Six courses (18.0 credit hours) in Women and Gender Studies at the 3000/4000 level  
 Three additional courses (9.0 credit hours) in Women and Gender Studies

**Notes**

With the permission of the Department Chair, students may take a maximum of two courses (6.0 credit hours) from other disciplines which offer related or complementary course materials.

Students may take more than one offering of a Series course or more than one Independent Study for credit if the offerings (as indicated by the specific titles) are distinct.

**aq. Double Majors**

Students completing the Bachelor of Arts may declare and complete two established majors for the B.A., and students completing the Bachelor of Science may declare and complete two established majors for the B.Sc. Students interested in completing an arts major and a science major may refer to the **Bachelor of Arts and Science (B.A.Sc.) (p. 95)**.

**Admission Requirements**

Students interested in a second major should begin their studies in a single major and apply for the second major at a later date. To be approved for the declaration of a second major, the following requirements must be met (in addition to high school requirements - see **Admission, p. 89**):

1. A minimum cumulative GPA of 3.00 on the completion of at least 10 courses (30.0 credit hours) at the University of Lethbridge.
2. Completion of at least one course (3.0 credit hours) in the main discipline of the major. For example, students wishing to declare a second major in Biochemistry must have completed at least one course labeled Biochemistry.

Individual Multidisciplinary majors and General majors are ineligible for double major designation. Double counting of courses is not allowed. Students choosing to complete two majors may need to complete more than the minimum 40 courses for the degree depending on the choice of majors.

The Faculty cannot guarantee that course sequencing and Timetables will accommodate all double major combinations within eight consecutive regular terms of work.

Students who have completed two majors at the time of graduation without having previously declared a second major may still apply to convocate with both majors.

Interested students are encouraged to consult with academic advisors regarding double majors.

#### ar. Individual Multidisciplinary Majors

Students may establish Individual Multidisciplinary majors.

An Individual Multidisciplinary major must represent an identifiable and significant body of knowledge and entail in-depth study rather than a superficial survey of a broad topic. For the most part, the program is expected to be derived from the existing curriculum in Arts and Science.

An Individual Multidisciplinary major program consists of 20-28 courses with the following structure:

1. Required Core  
The core of the major must contain a minimum of eight and a maximum of 20 required courses providing a broad-based familiarity with the major. These core courses must be taken from at least two disciplines.
2. An Independent Study at the 3000 or 4000 level.
3. Options  
The remaining courses in the Individual Multidisciplinary major must be chosen from a list of optional courses. The chosen courses must be from at least two disciplines.
4. At least six of the courses must be at the 3000 or 4000 level, one of which must be at the 4000 level.

Students are encouraged to apply early to establish an Individual Multidisciplinary major and also to explore potential programs with faculty members prior to making an application.

An application to establish an Individual Multidisciplinary major must be submitted to the Dean. Approval of an Individual Multidisciplinary major by Arts and Science Council must be obtained prior to registration in the final 10 courses in the degree. Students are advised that formulation and approval of a program normally takes up to six months after the initial application and thus applications should be submitted in sufficient time to allow processing.

The Individual Multidisciplinary major shall be formulated by a committee, chaired by the Dean and composed of the student and faculty representatives, appointed by their departments, from at least two appropriate departments chosen by the Dean.

During its deliberations the committee shall consult all departments represented in the major. Before being submitted to the Arts and Science Curriculum Committee, the proposed program shall be approved by the Chairs of the departments represented on the committee.

Students interested in an Individual Multidisciplinary major should contact the Dean.

### 17. MINORS

Students in Arts and Science degree programs may declare a minor to be completed in addition to their major. For the majority of degree programs, please refer to **Minors (p. 323)** for course requirements and regulations. For students completing the B.A./B.Ed. or B.Sc./B.Ed., please refer to **Faculty of Education, Education Minors (p. 159)** for information about Education minors.

### 18. CONCENTRATIONS

A concentration is a defined set of courses related to a major and may be required (completed within the minimum requirements for a major or program) or optional (completed in addition to the minimum requirements for a major).

For students who complete all requirements, the concentration will be acknowledged on the official academic transcript.

Required courses for the concentrations can be found in **Majors (p. 96)** along with the requirements for the given major or in **Post-Diploma Degree Programs (p. 136)** where requirements for each post-diploma program are outlined.

### 19. COMBINED DEGREES

There are combined 50-course programs leading to the degrees B.A./B.Ed. and B.Sc./B.Ed., the degree B.F.A. - New Media/B.Sc. (Computer Science), and the degrees B.A./B.Mgt. and B.Sc./B.Mgt. Upon successful completion of the program, the student receives the degree B.A. or B.Sc. from the Faculty of Arts and Science and the degree B.Ed. from the Faculty of Education, the degree B.A. or B.Sc. from the Faculty of Arts and Science and the degree B.Mgt. from the Dhillon School of Business, or the degree B.F.A. - New Media from the Faculty of Fine Arts and the degree B.Sc. from the Faculty of Arts and Science. Neither degree is granted until the entire combined degrees program is completed. See **Combined Degrees (p. 243)** for complete information.



**20. B.A., B.Sc. OR BASc. AFTER AN APPROVED DEGREE****a. General Requirements**

1. Completion of at least 20 courses (60.0 credit hours) with a GPA of at least 2.00. The program must be approved on an individual basis in advance by the Dean, and, in some cases, more than 20 courses (60.0 credit hours) may be required to satisfy all second degree and major requirements.
2. Completion of the Liberal Education List Requirement: six courses, two from each of List I, List II, and List III (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
3. No courses may be completed for credit towards the degree below the 2000 level, unless required for the major.
4. Completion of at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding activity courses (labeled PHAC and MUSE).
5. Not more than three Independent Study courses (9.0 credit hours) may be completed for credit towards the degree.
6. Not more than three Disciplinary Credit Applied Studies courses (9.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
7. No courses from disciplines outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed towards the degree.
8. Residence requirement: 20 courses (60.0 credit hours) taken at the University of Lethbridge after admission to the second degree program, including at least 10 courses (30.0 credit hours) at the 3000/4000 level.
9. Academic standards: A cumulative GPA of at least 2.00 must be maintained at all times.
10. Degree holders may be eligible to have course requirements waived in recognition of equivalent courses completed in the previous degree, in accordance with the residence requirement (above). Such waivers will be determined at the time of admission, or soon thereafter. Course materials may be requested to assess appropriate course waivers.

**b. Major Requirements**

1. The majors(s) must be declared at the time of program approval. Please see **Majors (p. 96)** for a listing of majors available for B.A., B.Sc., and BASc. degrees. All requirements for the major(s) must be completed.
2. Students seeking a General Major for a B.A. or B.Sc. after an approved degree must complete a modified 16-course General Major which includes at least four courses in each of three disciplinary streams, three additional courses from any of the available disciplinary streams, and one additional course. Please see **General Major in the Humanities (B.A.) (p. 116)**, **General Major in the Sciences (B.Sc.) (p. 117)**, or **General Major in the Social Sciences (B.A.) (p. 117)** for more information.

**21. B.A. OR B.Sc. AFTER COMPLETION OF A PROFESSIONAL DEGREE**

Students who initially complete an approved 30-course program in the Faculty of Arts and Science may attain the University of Lethbridge degree B.A. or B.Sc. after completing degree requirements in Dentistry, Law, Medicine, Social Work, or Veterinary Medicine in professional Faculties elsewhere. Students are not eligible if an undergraduate degree has already been awarded by another institution on the basis of University of Lethbridge courses.

Students intending to complete the B.A. or B.Sc. requirements in the above manner must have their programs approved by the Dean. It is recommended that interested students consult with an academic advisor early in their programs.

**22. POST-DIPLOMA DEGREE PROGRAMS****Sample Sequencing Plans**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**a. Post-Diploma Bachelor of Arts (B.A.) in Agricultural Studies**

This program is directed toward graduates of approved two-year college diplomas in Agriculture. Graduates of other diploma programs in Agriculture will also be considered. See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for a list of colleges with approved diplomas.

Students must complete at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education, as follows, with a minimum GPA of 2.00.

**Required core (11 courses):**

Agricultural Studies 1000 - The Evolution of Agriculture  
 Agricultural Studies 3300 - Modelling of Agricultural Systems  
 Agricultural Studies 4000 - Seminar in Agricultural Issues  
 Economics 1010 - Introduction to Microeconomics  
 Economics 2750 - Quantitative Methods in Economics  
 Economics 3300 - Agricultural Policy I  
 Statistics 1770 - Introduction to Probability and Statistics

**One of:**

Economics 2150 - Economics of Agricultural Issues  
 Economics 2350 - Economics of Agricultural Markets I

**One of:**

Philosophy 2001 - Introduction to Ethics  
 Philosophy 2236 - Environmental Philosophy  
 Philosophy 3402 - Biomedical Ethics

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**One of:**

English 1900 - Introduction to Language and Literature  
 History 1000 - The Western World  
 History 1200 - World History  
 Philosophy 1000 - Introduction to Philosophy  
 Religious Studies 1000 - Introduction to World Religions

**One of the following streams (a. or b.; eight courses):****a. General Stream**

Three courses (9.0 credit hours) at the 3000/4000 level from List I: Fine Arts and Humanities Courses and List II: Social Science Courses

One additional course (3.0 credit hours) from List I: Fine Arts and Humanities Courses and List II: Social Science Courses

Four additional courses (12.0 credit hours) from disciplines offered by the Faculty of Arts and Science

**b. Agricultural Economics Stream**

Economics 1012 - Introduction to Macroeconomics  
 Economics 3010 - Intermediate Microeconomic Theory  
 Economics 3012 - Intermediate Macroeconomic Theory

Economics 4300 - Agricultural Policy II

Two additional courses (6.0 credit hours) at the 3000/4000 level from List I: Fine Arts and Humanities Courses and List II: Social Science Courses

Two additional courses (6.0 credit hours) from disciplines offered by the Faculty of Arts and Science

**Electives (one course):**

One additional course from List I: Fine Arts and Humanities Courses

**Notes**

Courses labeled as “electives” may be used towards a minor if a minor is chosen. Additional courses (apart from the core, stream, and elective courses) must be completed if a concentration is declared.

To determine if a given course has a Fine Arts and Humanities designation or Social Science designation, see List I: Fine Arts and Humanities Courses and List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

No more than two Independent Study courses (3990 or 4990; 6.0 credit hours) may be counted towards the program.

Students with an interest in graduate study in Agriculture or recognition in professional societies should select their additional courses from Economics (3000/4000 level).

A student who successfully completes this degree program and major may apply to the Alberta Institute of Agrologists (AIA) to be registered as a Professional Agrologist within Alberta. Students should contact the Coordinator of Agricultural Studies early in the program for further information.

**Concentration: Agricultural Business (optional)**

Students in the Post-Diploma B.A. in Agricultural Studies degree program may declare a Concentration in Agricultural Business.

**Required Courses:**

Accounting 2100 - Introductory Accounting

Marketing 2020 - Marketing

**Three of:**

Economics 3030 - Managerial Economics

Economics 3780/Management 3780 - Principles of Industrial Organization

<sup>1</sup> Human Resources and Labour Relations 3050 - Human Resource Management

Management 3010 - Business Law

Political Science 2210 - Canadian Politics and Government

**Notes:**

<sup>1</sup> Corequisite: Management 1000

Students may not double count courses required for the Concentration in Agricultural Business in fulfilling requirements for the post-diploma program.

For students who complete all requirements, the Concentration in Agricultural Business will be acknowledged on the official transcript.

**b. Post-Diploma Bachelor of Science (B.Sc.) in Agricultural Studies**

Post-Diploma Bachelor of Science (B.Sc.) in Agricultural Studies

This program is directed toward graduates of approved two-year college diplomas in Agriculture. Graduates of other diploma programs in Agriculture will also be considered. See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for a list of colleges with approved diplomas.

Students must complete at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education, as follows, with a minimum GPA of 2.00.

**Required core (11 courses):**

Agricultural Studies 1000 - The Evolution of Agriculture  
 Agricultural Studies 3300 - Modelling of Agricultural Systems  
 Agricultural Studies 4000 - Seminar in Agricultural Issues  
 Biology 1010 - Cellular Basis of Life  
 Economics 1010 - Introduction to Microeconomics  
 Economics 3220 - Environmental Economics  
 Economics 3300 - Agricultural Policy I  
 Geography 3210 - Food Systems Analysis  
 Statistics 1770 - Introduction to Probability and Statistics

**One of:**

Philosophy 2001 - Introduction to Ethics  
 Philosophy 2236 - Environmental Philosophy  
 Philosophy 3402 - Biomedical Ethics

**One of:**

English 1900 - Introduction to Language and Literature  
 History 1000 - The Western World  
 History 1200 - World History  
 Philosophy 1000 - Introduction to Philosophy  
 Religious Studies 1000 - Introduction to World Religions

**One of the following streams (a. or b.; eight courses):****a. Biological Sciences Stream**

Biology 2000 - Principles of Genetics  
 Biology 2200 - Principles of Ecology  
 Chemistry 1110 - Chemistry for Life Sciences I  
 Chemistry 2120 - Chemistry for Life Sciences II

**Four of:**

Biology 2150 - Biostatistics  
<sup>1</sup> Biology 2300 - Cell Biology  
 Biology 3420 - Animal Physiology  
 Biology 3460 - Plant Physiology  
 Biology 3520 - Invertebrate Zoology  
 Biology 3530 - Vertebrate Zoology  
 Biology 3560 - Integrative Plant Biology  
 Biology 3700 - Ecosystem Ecology  
 Biology 3710 - Population Biology  
 Biology 3720 - Community Ecology  
 Biology 4570 - Plant Breeding and Genetics  
 Environmental Science 2000 - Fundamentals of Environmental Science

**b. Geography Stream****Eight of:**

Environmental Science 2000 - Fundamentals of Environmental Science  
 Geography 2300 - Weather and Climate  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science  
 Geography 3075 - Environmental Resources Management  
 Geography 3080 - Soils  
 Geography 3400 - Hydrology  
 Geography 3700 - Mapping in the Cloud  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems  
 Geography 4060 - Agricultural Soil Management  
 Geography 4065 - Irrigation Science  
 Geography 4400 - Advanced Hydrology  
 Geography 4725 - Advanced Remote Sensing  
 Geography 4740 - Advanced Geographical Information Systems

**Elective (one course):**

One additional course from List I: Fine Arts and Humanities Courses

**Notes**

<sup>1</sup> Corequisite required: Biochemistry 2000.

Courses labeled as “electives” may be used towards a minor if a minor is chosen. Additional courses (apart from the core, stream, and elective courses) must be completed if a concentration is declared.

To determine if a given course has a Fine Arts and Humanities designation, see List I: Fine Arts and Humanities Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

No more than two Independent Study courses (3990 or 4990; 6.0 credit hours) may be counted towards the program.

Students may count a maximum of two Special Topics courses (i.e., Biology or Geography 3850 or 4850) towards the required stream provided they are (1) clearly related to the stream and (2) approved by the Coordinator of Agricultural Studies.

Students wishing to pursue the Concentration in Geographical Information Science must complete Geography 2735 among the eight courses required in the Geography Stream.

A student who successfully completes this degree program and major may apply to the Alberta Institute of Agrologists (AIA) to be registered as a Professional Agrologist within Alberta. Students should contact the Coordinator of Agricultural Studies early in the program for further information.

**Concentration: Agricultural Business (optional)**

Students in the Post-Diploma B.Sc. in Agricultural Studies degree program may declare a Concentration in Agricultural Business.

**Required Courses:**

Accounting 2100 - Introductory Accounting

Marketing 2020 - Marketing

**Three of:**

Economics 3030 - Managerial Economics

Economics 3780/Management 3780 - Principles of Industrial Organization

<sup>1</sup> Human Resources and Labour Relations 3050 - Human Resource Management

Management 3010 - Business Law

Political Science 2210 - Canadian Politics and Government

**Notes:**

<sup>1</sup> Corequisite: Management 1000

For students who complete all the requirements, the Concentration in Agricultural Business will be acknowledged on the official academic transcript.

**Concentration: Geographical Information Science (optional)**

Students in the Post-Diploma B.Sc. in Agricultural Studies degree program may declare a Concentration in Geographical Information Science.

**Required Courses:**

Computer Science 1620 - Fundamentals of Programming I

Geography 3720 - Remote Sensing

Geography 3740 - Geographical Information Systems

Geography 4725 - Advanced Remote Sensing

Geography 4740 - Advanced Geographical Information Systems

**Notes:**

An alternate Geography course may be counted toward the concentration requirements provided (1) it is clearly related to Geographical Information Science and (2) it is approved by the Chair of the Department of Geography.

Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the Geography stream.

For students who complete all the requirements, the Concentration in Geographical Information Science will be acknowledged on the official academic transcript.

**c. Post-Diploma Bachelor of Science (B.Sc.) in Computer Science**

This program is directed toward graduates of approved two-year college diploma programs in Computer System Technology or Computer Information Technology. Graduates of other diploma programs in these areas will also be considered. See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for a list of colleges with approved diplomas.

Students must complete at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education, as follows, with a minimum GPA of 2.00.

**Required core (12 courses):**

Computer Science 1820 - Discrete Structures

Computer Science 2720 - Practical Software Development

Computer Science 3615 - Computer Architecture

Computer Science 3620 - Data Structures and Algorithms

Computer Science 3740 - Programming Languages

Mathematics 2000 - Mathematical Concepts

<sup>1</sup> Four additional courses (12.0 credit hours) in Computer Science at the 3000/4000 level

Two courses (6.0 credit hours) in Computer Science at the 4000 level, excluding Computer Science 4850 (Topics), Computer Science 4980 (Applied Studies), and Computer Science 4990 (Independent Study).

**Electives (eight courses):**

Four courses (12.0 credit hours) from List I: Fine Arts and Humanities

Four courses (12.0 credit hours) from List II: Social Sciences

**Notes**

<sup>1</sup> One of the additional 3000-level Computer Science courses may be replaced by a course from the following list:

Physics 3900 - Intermediate Experimental Physics (Series) (Digital Electronics)

Any 3000/4000-level Mathematics course

Courses labeled as "electives" may be used towards a minor if a minor is chosen.

To determine if a given course has a Fine Arts and Humanities designation or a Social Science designation, see List I: Fine Arts and Humanities Courses and List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

No more than two Independent Study courses (3990 or 4990; 6.0 credit hours) may be counted towards the program.

Students may find that their diploma courses may overlap in content with some course offerings in the Computer Science program. However, the Department's offerings will often differ in focus and emphasis from diploma course offerings that bear superficially similar course descriptions. Students who have reservations about apparent duplication of offerings of Computer Science Electives studied in their diploma programs are encouraged to pursue other Elective offerings from the Department.

Students will be expected to have a working knowledge of the programming languages used by the Department in the delivery of Computer Science 1620 and Computer Science 2620. A student without this background will be expected to remedy any programming language deficiencies.

**d. Post-Diploma Bachelor of Science (B.Sc.) in Environmental Science**

This program is directed toward graduates of approved two-year college diploma programs in Environmental Science or related areas. Graduates of other diploma programs in Environmental Science will also be considered. See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for a list of colleges with approved diplomas.

Students must complete at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education, as follows, with a minimum GPA of 2.00.

**Required core (14 courses):**

Biology 1010 - Cellular Basis of Life

Biology 2000 - Principles of Genetics

Environmental Science 4000 - Selected Studies in Environmental Science II (Series)

Geography 2300 - Weather and Climate

Geography 3740 - Geographical Information Systems

**One of:**

Physics 1050 - Introduction to Biophysics

Statistics 1770 - Introduction to Probability and Statistics

**One of:**

Biology 2150 - Biostatistics

Geography 2700 - Geographical Data and Analysis

**Three of:**

Biology 3300 - Evolution

Biology 3460 - Plant Physiology

Biology 3520 - Invertebrate Zoology

Biology 3530 - Vertebrate Zoology

Biology 3630 - Field Biology

Biology 3660 - Field Botany

Biology 3700 - Ecosystem Ecology

Biology 3710 - Population Biology

Biology 3720 - Community Ecology

Biology 4605 - Conservation Biology

Biology 4700 - Molecular Ecology

Biology 4710 - Evolutionary and Ecological Modelling

Biology 4740 - Behavioural Ecology

Biology 4800 - Biology of Parasitism

Two courses (6.0 credit hours) in Geography at the 3000/4000 level, with a Science designation

Two lab-based courses (6.0 credit hours) in Chemistry at the 1000 level or above (preferably Chemistry 1110 - Chemistry for Life Sciences I and Chemistry 2120 - Chemistry for Life Sciences II)

**Electives (six courses):**

Three courses (9.0 credit hours) from List I: Fine Arts and Humanities

One course (3.0 credit hours) from List II: Social Sciences

One course (3.0 credit hours) from List I: Fine Arts and Humanities or List II: Social Sciences

One additional course (3.0 credit hours) at the 3000/4000 level, excluding Activity courses (labeled PHAC and MUSE)

**Notes**

Courses labeled as “electives” may be used towards a minor if a minor is chosen. Additional courses (apart from the core and elective courses) must be completed if a concentration is declared.

To determine if a given course has a Fine Arts and Humanities, Social Science, or Science designation, see List I: Fine Arts and Humanities Courses, List II: Social Science Courses, and List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

No more than two Independent Study courses (3990 or 4990; 6.0 credit hours) may be counted towards the program.

Students may not take for credit those courses offered by Biological Sciences or Geography that have close equivalents in the college diploma program. These excluded courses include the following: Biology 1020, Biology 2200, Geography 1000, Geography 2065, Geography 2735, and Geography 3080.

**Concentration: Geographical Information Science (optional)**

Students in the Post-Diploma B.Sc. in Environmental Science degree program may declare a Concentration in Geographical Information Science.

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I

Geography 3720 - Remote Sensing

Geography 4725 - Advanced Remote Sensing

Geography 4740 - Advanced Geographical Information Systems

**One of:**

Geography 4400 - Advanced Hydrology

Geography 4700 - Advanced Digital Mapping

Geography 4710 - Remote Sensing Field Techniques

Geography 4730 - Spatial Statistics

Geography 4751 - Spatial Modelling

Geography 4753 - Seminar in Remote Sensing

**Notes:**

An alternate Geography course may be counted toward the concentration requirements provided (1) it is clearly related to Geographical Information Science and (2) it is approved by the Chair of the Department of Geography.

Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the major.

For students who complete, in addition to the minimum 20 courses for this B.Sc. degree program, all five courses, the Concentration in Geographical Information Science will be acknowledged on the official academic transcript.

**e. Post-Diploma Bachelor of Science (B.Sc.) in Geography, With a Concentration in Geographical Information Science**

This program is directed toward graduates of approved two-year college diploma programs in geography, geomatics and land resource information systems. Graduates of other diploma programs in these areas will also be considered. See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for a list of colleges with approved diplomas.

Students must complete at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education, as follows, with a minimum GPA of 2.00.

**Required core (14 courses):**

Computer Science 1620 - Fundamentals of Programming I

Geography 1200 - Introduction to Human Geography

Geography 2210 - Spatial Organization of Economic Activity

Geography 2700 - Geographical Data and Analysis

Geography 3720 - Remote Sensing

Geography 3740 - Geographical Information Systems

Geography 4725 - Advanced Remote Sensing

Geography 4740 - Advanced Geographical Information Systems

**Two of:**

Environmental Science 2000 - Fundamentals of Environmental Science

Geography 2030 - Geomorphology

Geography 2300 - Weather and Climate

**One of:**

Geography 3700 - Mapping in the Cloud

Geography 3710 - Field Techniques in the Earth Sciences

**One of:**

Geography 4400 - Advanced Hydrology  
 Geography 4700 - Advanced Digital Mapping  
 Geography 4710 - Remote Sensing Field Techniques  
 Geography 4751 - Spatial Modelling  
 Geography 4753 - Seminar in Remote Sensing  
 Remote Sensing 4650 - Physics of Remote Sensing

One additional course (3.0 credit hours) in Geography or Archaeology at the 3000/4000 level, with a Science designation

One additional course (3.0 credit hours) in Geography or Archaeology at the 4000 level, with a Science designation

**Electives (six courses):**

Three courses (9.0 credit hours) from List I: Fine Arts and Humanities

One course (3.0 credit hours) from List II: Social Sciences

One course (3.0 credit hours) from List I: Fine Arts and Humanities or List II: Social Sciences

One additional course (3.0 credit hours) at the 3000/4000 level, excluding Activity courses (labeled PHAC and MUSE)

**Notes**

Courses labeled as "electives" may be used towards a minor if a minor is chosen.

To determine if a given course has a Fine Arts and Humanities, Social Science, or Science designation, see List I: Fine Arts and Humanities Courses, List II: Social Science Courses, and List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

Students may not take for credit courses that have close equivalents in their diploma program. Students should consult the Program Coordinator for Geography (Geographical Information Science Concentration) concerning possible adjustments to the above program requirements. Excluded courses include the following: Geography 1000 and Geography 2735.

**23. INDIGENOUS STUDENT SUCCESS COHORT**

The Indigenous Student Success Cohort (ISSC) is a first year credit program that provides Indigenous students who are not fully admissible to the University of Lethbridge an opportunity to enter into, and succeed at, the university level by providing a solid foundation of core skills in a supportive cohort environment that attends to Indigenous ways of knowing and learning. In addition to access to university courses, the program provides cultural and peer support, advising, and academic skill development to create a positive first year experience that positions students for success in their remaining years of undergraduate studies in the programs of their choice. When space permits, those who qualify for general admission may also access the ISSC. This is a full-time university program that may qualify for loans and other sources of funding.

Please refer to the program website ([www.ulethbridge.ca/artsci/indigenous-student-success-cohort](http://www.ulethbridge.ca/artsci/indigenous-student-success-cohort)) for more information.

**Required core:**

Indigenous Student Success Cohort 0524 - Quest for Success I (1.5 credit hours)

Indigenous Student Success Cohort 0525 - Quest for Success II (1.5 credit hours)

Interdisciplinary Studies 0520 - Bridging Cultures: Two-Eyed Seeing

Library Science 0520 - Information Literacy

Writing 0520 - Preparation for Academic Reading and Writing

**One of:**

Indigenous Student Success Cohort 0520 - Mathematical Reasoning and Application

Mathematics 0100 - Preparation for Essential Mathematics (0.0 credit hours)

**Options:**

Students must complete a minimum of two (6.0 credit hours) and a maximum of four (12.0 credit hours) of the option courses.

Anthropology 0520 - The Anthropological Imagination

Biology 0520 - Foundations of Biology

Chemistry 0520 - Introductory Chemistry

Environmental Science 0520 - Introduction to Environmental Science

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

Mathematics 0520 - Essential Mathematics

Sociology 0520 - The Sociological Imagination

Additional approved courses at the 1000- or 2000-level

**Notes**

Students should choose Option courses based on the admission requirements of the undergraduate program (B.A., B.H.Sc., B.Mgt., B.N., B.Sc., etc.) they intend to enter at the completion of the ISSC. ISSC learning facilitators and advisors will provide guidance on appropriate course selection based on desired goals.

Students who complete the minimum course requirements of the ISSC and meet the Faculty of Arts and Science academic standards required for continuation (see **Academic Standards, p. 90**), will be admitted to any Arts and Science undergraduate program for which they have the required prerequisite courses (see **Admission, p. 89**). Those completing the ISSC with a minimum GPA of 2.00 (on the University of Lethbridge 4.00 scale) will be considered to have met general admission requirements for programs in the Faculty of Fine Arts, Faculty of Health Sciences, or the Dhillon School of Business (see **Admission, Continuing Students Changing Programs, p. 29**). Some programs have additional admission requirements or higher standards for entry that must be met before admission will be considered.

## 24. NURSING PREPARATION PROGRAM

The Faculty of Health Sciences and the Faculty of Arts and Science collaborate to offer the Nursing Preparation Program. Aimed at Bachelor of Nursing (B.N.) applicants who did not make the cut-off for admission, the program is designed to provide students with an opportunity to increase their grades for possible admission to the B.N. program the following year at the same time as completing requirements for that program.

The admission policies and procedures set out in Admission of this Calendar apply. See **Admission, General Admission Routes and Academic Qualifications (p. 23)** for general admission requirements.

Refer to the Program Planning Guide (available at [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs)) for current information regarding course options and the Faculty of Health Sciences' website ([www.ulethbridge.ca/healthsciences/substitutions](http://www.ulethbridge.ca/healthsciences/substitutions)) for the list of courses which may be substituted in the Bachelor of Nursing program.

**Note:** Students should see an academic advisor in the Faculty of Health Sciences for program planning prior to course registration.

## 25. PRE-PROFESSIONAL TRANSFER PROGRAM IN ENGINEERING

Students may complete a one-year Engineering Transfer Program with full transfer to the University of Alberta Bachelor of Science in Engineering degree program.

### a. Engineering (University of Alberta)

12 courses (34.5 credit hours) at the University of Lethbridge

University of transfer: Alberta

#### Required courses:

Chemistry 1000 - General Chemistry I

Chemistry 2000 - General Chemistry II

Computer Science 1620 - Fundamentals of Programming I

Engineering 1100 - The Engineering Profession I (1.5 credit hours)

Engineering 1600 - Introduction to Engineering Design, Communication, and Profession

Engineering 2000 - Engineering Statics

Engineering 2060 - Engineering Mechanics

Mathematics 1410 - Elementary Linear Algebra

Mathematics 1565 - Accelerated Calculus I

Mathematics 2565 - Accelerated Calculus II

Physics 2130 - Waves, Optics and Sound

Writing 1200 - Writing for Engineering Students

A minimum GPA of 2.50 is required for admission into the second year of Engineering at the University of Alberta. Students presenting a GPA lower than 2.50 may be offered admission based on available seats. Students are expected to complete the required 12 courses in two successive terms.

*For detailed information about the Engineering program at the University of Alberta, and planning the University of Lethbridge program in order to meet those requirements, students are directed to the Program Planning Enclosure for **Engineering (Alberta)**.*

## 26. PROFESSIONAL TRANSFER PROGRAMS

Students at the University of Lethbridge may prepare themselves to apply for admission to a number of professional programs offered at other institutions. Admission to these programs is by quota and is competitive, and students should consult with their school(s) of choice for further details regarding admission requirements.

For information about the B.A. or B.Sc. After Completion of a Professional Degree, see **B.A. or B.Sc. After Completion of a Professional Degree (p. 136)**.

### a. Dentistry (University of Alberta)

Students with an academic objective of Dentistry are admitted to the B.Sc. program with a major in Agricultural Biotechnology, Biochemistry, Biological Sciences, Chemistry, or Neuroscience. Students are referred to **Bachelor of Science (B.Sc.) (p. 95)** and **Majors (p. 96)** for information on the University of Lethbridge general degree and major requirements.

The basic requirement for admission to the Dentistry program is 20 courses (60.0 credit hours), including:

Two courses (6.0 credit hours) in each of:

Biology, English, General Chemistry, Organic Chemistry, Physics

One course (3.0 credit hours) in each of:

Biochemistry, Statistics

*For detailed information about the Dentistry program at the University of Alberta, and planning the University of Lethbridge degree in order to meet those requirements, students are directed to the Program Planning Guide for the B.Sc. with the appropriate major, with the **Dentistry Enclosure**.*

### b. Journalism (University of Regina)

Students with an academic objective of Journalism are generally admitted to a B.A. program at the University of Lethbridge with a major of the student's choice. Majors in Economics, English, History, Political Science or Sociology may be of particular interest. Students are referred to **Bachelor of Arts (B.A.) (p. 94)** and **Majors (p. 96)** respectively for information on the University of Lethbridge general degree and major requirements.



The University of Regina requires at least 20 courses (60.0 credit hours), including a wide variety of courses in subjects such as English, History, Indigenous Studies, and Political Science prior to admission to the B.A. (Journalism). The appropriate up-to-date University of Lethbridge equivalent courses are published in the **Journalism Enclosure**.

*For detailed information about the Journalism program at the University of Regina, and planning the University of Lethbridge degree in order to meet those requirements, students are directed to the Program Planning Guide for the B.A. with an appropriate major, with the **Journalism Enclosure**.*

**c. Law (University of Alberta or University of Calgary)**

Students with an academic objective of Law are generally admitted to a B.A. program at the University of Lethbridge with a major of the student's choice. Students are referred to **Bachelor of Arts (B.A.) (p. 94)** and **Majors (p. 96)** respectively for information on the University of Lethbridge general degree and major requirements.

To be considered for admission, prospective applicants must have an undergraduate degree or have completed at least 30 term courses. In exceptional circumstances, students may apply to the Faculty of Law after completion of 20 courses.

Admission to the Law program does not require any specific courses or identify any particular discipline as a required area of study in preparation.

The University of Lethbridge recommends that a student should possess knowledge from such disciplines as Economics, English, History, Philosophy, and Political Science. While a pre-Law background in the pure sciences should not be seen as a disadvantage, the oral, literary and analytical skills developed in the humanities and social sciences provide an excellent foundation for the study of law.

*Students are directed to the Program Planning Guide for the B.A. with the appropriate major, with the **Law Enclosure (University of Alberta or University of Calgary)**.*

**d. Medicine (University of Alberta or University of Calgary)**

Students with an academic objective of Medicine (Alberta or Calgary) are generally admitted to a B.Sc. program at the University of Lethbridge with a major of the student's choice. Majors in Agricultural Biotechnology, Biochemistry, Biological Sciences, Chemistry, and Neuroscience are of particular interest, although students from a wide variety of majors are admitted to this program. Admission is not restricted to students who have completed a B.Sc. degree. Students are referred to **Bachelor of Science (B.Sc.) (p. 95)** and **Majors (p. 96)** respectively for information on the University of Lethbridge general degree and major requirements.

Most successful applicants to the University of Alberta and University of Calgary programs will have completed a baccalaureate degree before admission. However, to be considered for admission, prospective applicants must have completed a minimum of two full years of university courses at the time of application.

No degree is preferred and no specific courses are required for application or acceptance to these M.D. programs. The admissions committees recommend that applicants consider taking as many of the courses listed below as their schedules allow, as the content of these courses will be helpful when writing the MCAT and during the M.D. program. Whether or not an applicant has taken these courses at the time of application will not be taken into consideration in scoring the academic record.

Suggested courses:

Biology, Biochemistry, General Chemistry, Organic Chemistry, English, Physics, Physiology, Psychology/Sociology/Anthropology and Statistics/Calculus.

Completion of the suggested courses does not guarantee admission.

*For detailed information about the Medicine program and planning the University of Lethbridge degree in order to meet those requirements, students are directed to the Program Planning Guide for the B.Sc. with the appropriate major, with the **Medicine (University of Alberta or University of Calgary) Enclosure**.*

**e. Social Work (University of Calgary)**

Students with an academic objective of Social Work are generally admitted to a B.A. program at the University of Lethbridge with a major of the student's choice. Majors in Economics, Political Science, Psychology or Sociology may be of particular interest. Students are referred to **Bachelor of Arts (B.A.) (p. 94)** and **Majors (p. 96)** respectively for information on the University of Lethbridge general degree and major requirements.

The Bachelor of Social Work is offered through the University of Calgary and may be taken at one of the three divisions: University of Calgary campus, University of Lethbridge campus, or University of Alberta campus.

The nature of the Social Work profession is such that a student should possess a strong background in the Social Sciences before application to the Faculty.

Admission to the Social Work program requires a minimum of 19 courses at the University of Lethbridge plus Social Work 201 (Introduction to Social Work), which is offered on the University of Lethbridge campus. Students must first obtain a letter of permission granting Visiting Student Authorization to the University of Calgary from the Arts and Science Student Program Services Office, as well as provide an official academic transcript of all post-secondary education.

For further details, see **Social Work (University Of Calgary) - Lethbridge Division (p. 239)** in this Calendar.

*Students are directed to the Program Planning Guide for the B.A. with the appropriate major, with the **Social Work Enclosure**.*

**f. Veterinary Medicine (University of Calgary)**

Students with an academic objective of Veterinary Medicine are admitted to the B.Sc. program with a major in Agricultural Biotechnology, Biochemistry, Biological Sciences, Chemistry, or Neuroscience. Students are referred to **Bachelor of Science (B.Sc.) (p. 95)** and **Majors (p. 96)** for information on the University of Lethbridge general degree and major requirements.

Most successful applicants to Veterinary Medicine programs will have completed a baccalaureate degree before admission. However, to be considered for admission, prospective applicants must have completed a minimum of two full years of university courses at the time of application.

The minimum admission requirements are as follows:

Two courses (6.0 credit hours) in each of:

Biology (with labs), General Chemistry (with labs)

One course (3.0 credit hours) in each of:

Biochemistry, Organic Chemistry (with lab), Ecology, English, Genetics, Statistics

*For detailed information about the Veterinary Medicine program and planning the University of Lethbridge degree in order to meet those requirements, students are directed to the Program Planning Guide for the B.Sc. with the appropriate major, with the **Veterinary Medicine (University of Calgary) Enclosure**.*

**27. CERTIFICATE IN ARTS AND SCIENCE**

The Certificate in Arts and Science, with a declared stream, is available to students wishing to complete a university credential more rapidly than the standard degree program. Students may complete the ten-course certificate program on a part-time or full-time basis and may then apply for a degree program if desired, with the courses from the certificate meeting requirements in the degree.

**General Requirements**

- Completion of at least 10 courses (30.0 credit hours) with a GPA of at least 2.00
- Completion of a modified Liberal Education Requirement: 2 courses (6.0 credit hours) in Fine Arts and Humanities, 2 courses (6.0 credit hours) in Social Science, 2 courses (6.0 credit hours) in Sciences
- All courses must be selected from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education
- Residence Requirement: at least 7 courses (21.0 credit hours) must be completed at the University of Lethbridge

**Streams**

Students must select one stream and complete all of the courses as listed. To determine if a given course has a Fine Arts or Humanities, Social Science, or Science designation, see School of Liberal Education, **Liberal Education Lists (p. 82)** or consult the current timetable.

**a. Anthropology****Required courses:**

Anthropology 1000 - The Anthropological Perspective

Anthropology 2210 - Cultures of the World (Series)

One additional course (3.0 credit hours) in Anthropology

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List III: Science Courses

Three Elective courses (9.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**b. English****Required courses:**

English 1900 - Introduction to Language and Literature

**One of (Literary Surveys):**

English 2000 - Survey of Canadian Literature

English 2400 - Survey of English Literature I

English 2450 - Survey of English Literature II

English 2500 - Survey of American Literature I

English 2550 - Survey of American Literature II

English 2610 - Survey of Children's Literature

English 2625 - Survey of World Literature

English 2700 - Surveys of Literature (Series)

**One of (Genres, Approaches, and Themes):**

English 2100 - Poetry

English 2200 - Drama

English 2300 - Prose Fiction

English 2720 - Approaches to Literature (Series)

English 2800 - Rhetoric

English 2810 - Grammar

One Additional course (3.0 credit hours) in English

Two courses (6.0 credit hours) from List II: Social Science Courses

Two courses (6.0 credit hours) from List III: Science Courses

Two Elective courses (6.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**c. General Humanities**

**Required courses:**

Two courses (6.0 credit hours) in each of three disciplines chosen from the following list:

English - all courses

Fine Arts - all courses in Art, Art History, Cinema, Drama, Museum Studies, Music, Music Studio, and New Media

One of French, Japanese, or Spanish

Classical Languages<sup>1</sup> - all courses in Greek, Hebrew, and Latin

History - all courses

Indigenous Studies - all courses (including courses in Blackfoot and Cree)

Linguistics - all courses designated Humanities

Philosophy - all courses designated Humanities

Religious Studies - all courses

Two courses (6.0 credit hours) from List II: Social Science Courses

Two courses (6.0 credit hours) from List III: Science Courses

**Notes**

<sup>1</sup>Classical language courses (Greek, Hebrew, and Latin) may not be offered each term.

**d. General Sciences**

**Required courses:**

Two courses (6.0 credit hours) in each of three disciplines chosen from the following list:

Archaeology - all courses designated Science

Biological Sciences - all Biology courses

Chemistry - all courses (including courses in Biochemistry)

Computer Science - all courses

Geography - all courses designated Science

Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)

Mathematics - all courses (including courses in Statistics)

Neuroscience - all courses

Physics - all courses (including courses in Astronomy and Engineering)

Psychology - all courses designated Science

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List II: Social Science Courses

**Note:** Many introductory science courses have high school-level prerequisites. Please check the **Course Catalogue (p. 343)** before registering.

**e. General Social Sciences**

**Required courses:**

Two courses (6.0 credit hours) in each of three disciplines chosen from the following list:

Anthropology - all courses

Archaeology - all courses designated Social Science

Economics - all courses designated Social Science

Geography - all courses designated Social Science

History - all courses

Indigenous Studies - all courses (courses in Blackfoot and Cree may not be included)

Kinesiology - all courses designated Social Science (Physical Activity courses may not be included)

Political Science - all courses designated Social Science

Psychology - all courses designated Social Science

Sociology - all courses

Women and Gender Studies - all courses designated Social Science

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List III: Science Courses

**f. Geospatial Techniques**

**Required courses:**

Geography 1000 - Introduction to Physical Geography

Geography 1200 - Introduction to Human Geography

Geography 2700 - Geographical Data and Analysis

Geography 2735 - Introduction to Geographical Information Science

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

One course (3.0 credit hours) from List II: Social Science Courses

Three Elective courses (9.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**g. Human Geography****Required courses:**

Geography 1200 - Introduction to Human Geography

Geography 2210 - Spatial Organization of Economic Activity

Geography 2535 - Introduction to Planning

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List III: Science Courses

Three Elective courses (9.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**h. Indigenous Studies****Required courses:**

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

**Three of:**

Indigenous Studies 1100/Linguistics 1100 - Language and Culture in Indigenous America

Indigenous Studies 2300 - North American Indigenous Art History and Theory

Indigenous Studies 2360 - Indigenous Popular Cultures

Indigenous Studies 2455 - Social Organization: Kinship

Indigenous Studies 2500 - Indigenous Histories of Canada

Indigenous Studies 2550 - Indigenous Histories of the United States

Indigenous Studies 2700 - Indigenous Women

Indigenous Studies 2750/Linguistics 2750 - Endangered Languages

Two courses (6.0 credit hours) from List II: Social Science Courses

Two courses (6.0 credit hours) from List III: Science Courses

Two Elective courses (6.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**i. Physical Geography****Required courses:**

Geography 1000 - Introduction to Physical Geography

Geography 2030 - Geomorphology

Geography 2300 - Weather and Climate

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List II: Social Science Courses

Three Elective courses (9.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**j. Political Science****Required courses:**

Political Science 1000 - Introduction to Political Science

Political Science 2110 - International Relations

Political Science 2210 - Canadian Politics and Government

Political Science 2511 - Introduction to Political Theory

One course (3.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List III: Science Courses

Three Elective courses (9.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**k. Sociology****Required courses:**

Sociology 1000 - Introduction to Sociology

Sociology 2050 - Social Inequality

Sociology 2300 - Committing Sociology

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List III: Science Courses

Three Elective courses (9.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**l. Women and Gender Studies****Required courses:**

Women and Gender Studies 1000 - Introduction to Women and Gender Studies

Women and Gender Studies 2300 - Feminist Theoretical Frameworks

Women and Gender Studies 2600 - Activism and Advocacy

Women and Gender Studies 3070 - Social Justice and the State (Series)

Two courses (6.0 credit hours) from List I: Fine Arts and Humanities Courses

Two courses (6.0 credit hours) from List III: Science Courses

Two Elective courses (6.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

**m. World Religions****Required courses:**

Religious Studies 1000 - Introduction to World Religions

**One of (Eastern Religions):**

Religious Studies 2100 - The Hindu Tradition

Religious Studies 2200 - The Buddhist Tradition

Religious Studies 2330 - Chinese Religions

Religious Studies 2360 - Japanese Religions

**One of (Western Religions):**

Religious Studies 2400 - Judaism

Religious Studies 2450 - Bible Survey

Religious Studies 2500 - Christianity

Religious Studies 2600 - Islam

One additional course (3.0 credit hours) in Religious Studies

Two courses (6.0 credit hours) from List II: Social Science Courses

Two courses (6.0 credit hours) from List III: Science Courses

Two Elective courses (6.0 credit hours) from courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, and the School of Liberal Education

# FACULTY OF EDUCATION

<b>1. PHILOSOPHY</b> .....	<b>150</b>	<b>8. POLICIES AND REGULATIONS</b> .....	<b>156</b>
<b>2. GUIDING PRINCIPLES OF TEACHER EDUCATION</b> .....	<b>150</b>	a. Standards of Professional Conduct .....	156
<b>3. EDUCATION PROGRAMS</b> .....	<b>150</b>	b. Academic Regulations and Information ....	157
a. Programs Leading to Alberta Teacher Certification .....	150	c. Practicum Regulations and Information ....	158
b. Other Education Programs .....	151	d. Special Study Arrangements .....	159
<b>4. ADVISING</b> .....	<b>151</b>	<b>9. EDUCATION MINORS</b> .....	<b>159</b>
<b>5. ADMISSION TO BACHELOR OF EDUCATION PROGRAMS</b> .....	<b>151</b>	a. Art Education .....	159
a. Combined Degrees Programs .....	152	b. Blackfoot Language Education .....	159
b. After Degree Program .....	152	c. Career and Technology Studies (CTS) Minors .....	160
c. Special Case Admission .....	152	d. Drama Education .....	163
d. Admission Procedures Available to Students of Indigenous Descent .....	153	e. English Language Arts Education .....	163
e. Readmission after Withdrawal .....	153	f. Indigenous Education .....	163
<b>6. ADMISSION TO OTHER EDUCATION PROGRAMS</b> .....	<b>153</b>	g. Japanese Language Education .....	163
a. Diploma in Education .....	153	h. Mathematics Education .....	163
<b>7. REQUIREMENTS FOR BACHELOR OF EDUCATION PROGRAMS</b> .....	<b>153</b>	i. Modern Languages Education (French, Spanish) .....	164
a. Degrees Combined with the Bachelor of Education .....	153	j. Music Education .....	164
b. Bachelor of Education After an Approved Degree .....	155	k. Physical Education .....	164
		l. Religious Studies Education .....	164
		m. Science Education .....	164
		n. Social Studies Education .....	165
		<b>10. EDUCATION SPECIALIZATIONS</b> .....	<b>165</b>
		a. Inclusive Education .....	165
		b. Technology in Education .....	165
		<b>11. DIPLOMA PROGRAM IN EDUCATION (D.P.E.)</b> .....	<b>166</b>
		a. Student Initiated Diploma Program .....	166

## I. PHILOSOPHY

The Faculty of Education incorporates in its programs the overall philosophy that underscores the University's commitment to liberal education. Its programs reflect emphasis on individualization, flexibility, innovation, and experimentation.

## 2. GUIDING PRINCIPLES OF TEACHER EDUCATION

Consistent with the philosophy of the University of Lethbridge, the Faculty of Education:

- Is committed to the concept of a liberal education and the development of learners who engage in the life-long pursuit of knowledge;
- Promotes the concept of a teaching profession committed to understanding, working with, and relating positively to children and youth;
- Is committed to preparing learners and teachers for the present world and for a better world in the future;
- Promotes development of attributes and skills necessary for effective communication;
- Promotes in students an understanding of how knowledge is generated, evaluated, and revised, and an ability to reflect critically upon the nature of knowledge, its transmission, and its interpretation;
- Facilitates the integration of knowledge from general education, disciplinary education, professional education, and field experiences;
- Promotes in students the development of intellectual and affective strategies for making pedagogical decisions;
- Promotes in students an understanding of the social, practical, professional, and institutional contexts of teaching and learning, and the ability to analyze these contexts in making educational decisions;
- Promotes in students an understanding of subject matter to be taught and the means to transform that content for teaching/ learning purposes;
- Promotes an understanding of the personal nature of teaching and recognizes that the development of professional knowledge is a personal and professional responsibility;
- Promotes the integration of theory and practice in university courses and in schools, through experience, study, and reflection;
- Seeks to support and foster in students a spirit of inquiry, intellectual advancement, humane values, environmental conscience, aesthetic sensitivity, and a sense of physical and mental well-being;
- Fosters the ability to establish interpersonal relationships and sensitivity to others' interests and feelings, and to encourage students to apply these qualities in fulfilling their responsibility in a global society;
- Fosters a close collegial and reciprocal relationship with other members of the teaching profession; and,
- Supports faculty members who exemplify the foregoing by developing and maintaining expertise in their disciplines and fields of study, in their teaching, through their research and scholarly activity, and in their interpersonal interactions.

## 3. EDUCATION PROGRAMS

The Faculty of Education offers two programs which lead to Alberta Teacher Certification, as well as five other programs designed to support in-service or pre-service teacher development.

### a. Programs Leading to Alberta Teacher Certification

Candidates apply and are recommended for certification by the Faculty of Education to Alberta Learning. Only Alberta Learning is empowered to grant Alberta Teaching Certificates. Based on the recommendation of the Faculty of Education, Alberta Learning grants the Interim Professional Certificate to individuals who are Canadian citizens or Permanent Residents.

Recommendations are forwarded upon completion of the Combined Degrees Teacher Education program or the B.Ed. After an Approved Degree program. Candidates are evaluated on the basis of all data relating to their readiness to assume the responsibilities of a professional teacher as defined in the *Quality Teaching Document*.

Students are alerted to the following certification requirement.

All persons applying for certification as a teacher in Alberta will be subject to the following restriction on eligibility:

Except where the Minister of Learning decides otherwise, the Director, Teacher Certification and Development Branch, shall refuse to issue, re-issue, or extend an interim professional certificate to:

- A person who has been convicted of an indictable offence in Canada or an equivalent conviction in a jurisdiction outside Canada; or
- A person who the Director has reason to believe should not be issued a certificate.

For additional information, please contact the Director, Teacher Certification and Development Branch of Alberta Learning at 780-427-2045.

### I. Basic Teacher Education

This program leads to one of the following combined degrees:

- Bachelor of Arts and Bachelor of Education
- Bachelor of Fine Arts - Art and Bachelor of Education
- Post-Diploma Bachelor of Fine Arts - Art and Bachelor of Education
- Bachelor of Fine Arts - Dramatic Arts and Bachelor of Education

- Post-Diploma Bachelor of Fine Arts - Dramatic Arts and Bachelor of Education
- Bachelor of Fine Arts - New Media and Bachelor of Education
- Bachelor of Management and Bachelor of Education
- Post-Diploma Bachelor of Management and Bachelor of Education
- Bachelor of Music and Bachelor of Education
- Post-Diploma Bachelor of Music and Bachelor of Education
- Bachelor of Science and Bachelor of Education

These programs are described in detail in **Combined Degrees (p. 243)**.

2. Bachelor of Education After an Approved Degree

This program leads to a Bachelor of Education and Alberta Teacher Certification for those students already holding an approved degree (see **After Degree Program, p. 152**).

**b. Other Education Programs**

1. Bachelor of Education After Teacher Training

Individualized programs are arranged for candidates who hold an undergraduate degree, who have completed a minimum of one year of teacher training in an approved institution, and who already hold teacher certification. Students should consult with the Assistant Dean, Student Program Services in the Faculty of Education.

Students who have completed a minimum of one year of teacher training and who hold teacher certification but who do not hold an undergraduate degree must be admitted to and must complete the requirements of a combined degrees program. The B.Ed. component of the combined degrees program will be individually designed for each student to meet residency and degree requirements. Students should consult with the Assistant Dean, Student Program Services in the Faculty of Education.

2. Diploma in Education

The Faculty of Education offers the Student Initiated Diploma Program for certified practicing educators holding a Bachelor of Education degree.

This program is described in detail in **Diploma Program in Education (D.P.E.) (p. 166)**.

**4. ADVISING**

It is essential for new and returning students to seek advice concerning their academic goals, programs, and academic standing as early as possible.

Academic advising is coordinated by the Assistant Dean, Student Program Services in the Faculty of Education. Faculty members, who serve as academic advisors for each major, also inform students about preparation for teaching in specific school subjects. Advisors are also identified to assist students in planning specialized programs.

Academic advising in the Faculty of Education for graduate programs is coordinated by the Associate Dean, Graduate Studies and Research.

Academic advice may be obtained at any time during the year, but it is recommended that new students consult advisors during the three weeks prior to registration.

Advice and information from the Assistant Dean, Student Program Services in the Faculty of Education, may be obtained for the following:

- All aspects of program planning;
- Academic regulations and degree requirements;
- Grading system and appeals;
- Employment opportunities and job placement in education; and
- Teacher certification.

Advice and information from Education advisors and from appropriate Faculty of Arts and Science, Faculty of Fine Arts, or Dhillon School of Business advisors should be obtained for the following:

- Selection of courses for a major;
- Future scheduling of courses;
- Prerequisites and recommended backgrounds; and
- Availability of Independent Studies and Study Tours.

**5. ADMISSION TO BACHELOR OF EDUCATION PROGRAMS**

Based on the Faculty's quota system, normally 216 students are admitted to Bachelor of Education (B.Ed.) programs (combined degrees and After Degree) each year. Admission is available in the fall term only. Applicants to Faculty of Education programs are advised to refer to **Admission (p. 21)** for general admission requirements and policies.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both combined degrees and After Degree applicants.



### a. Combined Degrees Programs

The Faculty of Education does not offer a B.Ed. degree alone, except after an approved degree. First degree students must be admitted to a combined degrees program in order to earn a B.Ed. degree. Students are not officially in the program until they have been admitted to both the Faculty of Education and to the Faculty governing the degree combined with the B.Ed.

For a complete description of admission requirements for each of the following programs consult the corresponding sections of Combined Degrees:

- Bachelor of Arts/Bachelor of Education or Bachelor of Science/Bachelor of Education (p. 245)
- Bachelor of Fine Arts - Art/Bachelor of Education (p. 268)
- Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education (p. 271)
- Bachelor of Fine Arts - New Media/Bachelor of Education (p. 274)
- Bachelor of Music/Bachelor of Education (p. 277)
- Bachelor of Management/Bachelor of Education (p. 280)
- Post-Diploma Combined Degrees Programs in Fine Arts and Education (p. 314)
- Post-Diploma Bachelor of Management/Bachelor of Education (p. 319)

### b. After Degree Program

Applicants to the Bachelor of Education (B.Ed.) After Degree program must meet the following minimum requirements for admission.

All of the following admission requirements must be met by the decision document deadline, but exceptions are made for 1. (previous degree) and 4. (Education 2500) when applicants are completing these over the summer preceding admission.

1. Completion of an approved baccalaureate degree, including the completion of a teaching subject major. Applicants must present in their major the same number of courses in their major as students in the combined degrees program (see **Combined Degrees, p. 243**).  
An approved degree is a baccalaureate degree requiring a minimum of 30 courses (90.0 credit hours), or its academic equivalent, from a recognized degree-granting institution.
2. A minimum admission grade point average (GPA) of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all courses taken within the terms containing the last 14 university-level courses (42.0 credit hours), including courses in a previous degree and courses taken subsequently. All courses must be graded with the exception of Education 2500.
3. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all graded courses comprising the teaching subject major.
4. Credit in Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Education 2500 Prerequisite, p. 157**).
5. Completion of additional admission requirements for the Indigenous Education Major:  
Completion of three of the seven courses required in the school subject minor. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.00 scale) is required on all graded courses comprising the minor.

### c. Special Case Admission

For purposes of admission, the Faculty of Education calculates the admission GPA on all university-level courses taken in the terms containing the last 14 university-level courses (42.0 credit hours). Applicants who have a satisfactory academic record but who, for some reason, had a period of time within those terms when their performance was significantly lower, may apply for special case admission (up to four such applicants may be admitted each year). Normally, the terms containing the last eight courses may not be included in the period of the special case.

Applicants seeking special case admission must satisfy the following:

- Have applied for admission to the Faculty of Education;
- Meet minimum criteria for admission to the Faculty of Education;
- Demonstrate a shift in academic performance;
- Provide documentation of extenuating circumstances;
- Have completed at least 14 courses (42.0 credit hours) outside of the period of the special case; and
- Possess an admission GPA comparable to those admitted in the same subject area that year. The admission GPA is calculated on all university-level courses taken in the terms containing the last 14 university-level courses (42.0 credit hours), excluding the period of the special case. All courses must be graded with the exception of Education 2500.

Students must apply in writing to the Assistant Dean, Student Program Services in the Faculty of Education prior to the application deadline for such consideration.

**d. Admission Procedures Available to Students of Indigenous Descent**

The Faculty of Education offers two alternative admission opportunities for applicants of Indigenous descent:

1. Applicants who meet all minimum admission requirements in any major will be admitted to the Faculty. Applicants who wish to gain admission to the Faculty on the basis of their Indigenous heritage will follow all normal application procedures and, in addition, inform Student Program Services in the Faculty of Education of their intent in writing and provide evidence of Indigenous descent, prior to the application deadline.
2. Applicants of Indigenous descent who have a cumulative GPA and/or GPA in the major of less than 2.50 but equal to, or greater than, 2.00, may be considered for admission to the Faculty of Education. All other minimum admission requirements must be met. Applicants will be required to demonstrate that they possess other skills, talents or life experiences that enhance their ability to succeed in teaching. This may include, but is not limited to, any one of the following:
  - Experience working with children;
  - Proficiency in a First Nations language;
  - Expertise in First Nations cultural events;
  - Leadership experiences in the community;
  - Appropriate work experience; or
  - Completion of a college diploma program in an area relevant to teaching.

Admission decisions are to be based on submission of a résumé, at least one letter of recommendation, and an interview with the Undergraduate Student Program Committee. The decision of the Committee is final. Applicants who wish to gain admission through this route must follow all normal application procedures and, in addition, inform Student Program Services in the Faculty of Education of their intent in writing prior to the application deadline. All relevant supporting documents must be received by the decision document deadline.

**e. Readmission after Withdrawal**

Students who withdraw or who are required to withdraw from the Faculty of Education must successfully apply for readmission by the appropriate deadline. Readmission is not guaranteed. Education courses completed after withdrawing and prior to readmission may not count toward the Bachelor of Education. Students are advised to consult with the Assistant Dean, Student Program Services as early as possible.

Students who have been required to withdraw from an Education program at another post-secondary institution must receive a favourable recommendation in the University of Lethbridge offering of Education 2500 - Orientation to Teaching for admission consideration. Additionally, the student must consult with the Assistant Dean, Student Program Services prior to the application deadline for the Faculty of Education.

**6. ADMISSION TO OTHER EDUCATION PROGRAMS**

Applicants to Faculty of Education programs are advised to refer to **Admission (p. 21)** for general admission requirements and policies.

**a. Diploma in Education**

The Student Initiated Diploma in Education is available to teachers who are self-motivated and self-directed and who are also able to identify and develop programs to meet their own specific needs. Applicants must apply by May 1 to commence the program in the subsequent academic year and meet the following minimum requirements for admission:

1. Evidence of professional teaching certification (or its equivalent) in Alberta (or its equivalent); and
2. Two years successful teaching experience.

The Student Initiated Diploma in Education is also available as an exit route to students in the University of Lethbridge Master of Education (M.Ed.) program who have completed at least eight courses in the M.Ed. program, including the four core courses (see "Time Limits" in the University of Lethbridge Graduate Studies Calendar and Course Catalogue for the M.Ed. (Educational Leadership) and M.Ed. (Counselling Psychology) degrees). Such students apply to the Assistant Dean, Student Program Services in the Faculty of Education.

**7. REQUIREMENTS FOR BACHELOR OF EDUCATION PROGRAMS**

Generally, the combined degrees programs are comprised of three years of study (90.0 credit hours) in the Faculty of Arts and Science, the Faculty of Fine Arts or the Dhillon School of Business, and two years of study (60.0 credit hours) in the Faculty of Education. The B.Ed. after an Approved Degree program is generally comprised of two years of study in the Faculty of Education.

**a. Degrees Combined with the Bachelor of Education**

1. Teaching Major

Each student must enter the Faculty of Education under one of the 11 Education majors.

There are 10 Education majors in the B.A./B.Ed. or B.Sc./B.Ed. degree program:

- Art Education
- Drama Education
- English Language Arts Education
- Indigenous Education

- Mathematics Education
- Modern Languages Education (French or French/Spanish)
- Music Education
- Physical Education
- Science Education
- Social Studies Education

For a full description of these majors and sample sequencing plans, please consult **Combined Degrees (p. 243)**.

There are other majors available within the Combined Degrees programs. Please consult the appropriate sections in **Combined Degrees (p. 243)** as indicated below for a full description and related sample sequencing plans.

#### Art Education

- Bachelor of Fine Arts - Art/Bachelor of Education (**p. 268**)
- Post-Diploma Combined Degrees Programs in Fine Arts and Education\* (**p. 314**)

#### Career and Technology Studies: Business Focus

- Bachelor of Management/Bachelor of Education (**p. 280**)
- Post-Diploma Bachelor of Management/Bachelor of Education\* (**p. 319**)

#### Career and Technology Studies: New Media Focus

- Bachelor of Fine Arts - New Media/Bachelor of Education (**p. 274**)

#### Drama Education

- Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education (**p. 271**)
- Post-Diploma Combined Degrees Programs in Fine Arts and Education\* (**p. 314**)

#### Music Education

- Bachelor of Music/Bachelor of Education (**p. 277**)
- Post-Diploma Combined Degrees Programs in Fine Arts and Education\* (**p. 314**)

*\*After a two- or three-year diploma*

## 2. Minors

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education methods course, usually selected from the Education 3700 series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Education Minors (p. 159)** for information on Education minor requirements. Indigenous Education majors should refer to **Minors for Indigenous Education Majors (p. 154)** below.

**Note:** For all majors, Education students may not include, in any minor, any of the courses (including cognates) which are included in the major.

## 3. Minors for Indigenous Education Majors

Indigenous Education majors must declare a minor in one of the following areas:

- Art Education
- Career and Technology Studies (CTS): Business, Administration, Finance & Information Technology (BIT)
- Drama Education
- English Language Arts Education
- Mathematics Education
- Modern Languages Education (French or Spanish)
- Music Education
- Physical Education
- Science Education
- Social Studies Education

The minor for Indigenous Education majors includes seven non-Education courses in a school subject and an appropriate Education methods course.

The seven non-Education courses includes five courses as defined in **Education Minors (p. 159)**, as well as two further courses drawn from any discipline within the minor.

**Note:** For all majors, Education students may not include, in any minor, any of the courses (including cognates) which are included in the major.

## 4. Education Specializations

Students may elect to complete a specialization in addition to a major or minor, with the exception of those enrolled in the Indigenous Education major, who must complete Education 4576 - Indigenous Education Internship (Fall). Students will be eligible to receive an endorsement on their official academic transcript upon completion of a specialization. Please refer to **Education Specializations (p. 165)** for information on Education specialization requirements.

## b. Bachelor of Education After an Approved Degree

At the time of admission, the content of the applicant's previous degree or degrees is assessed. A program is planned and approved by Student Program Services in the Faculty of Education. If the previous degree or degrees contain the necessary components, including a completed teaching major, both certification and B.Ed. requirements may be met upon completion of the minimum additional 20 courses, including the following:

- Education 2500 - Orientation to Teaching\*
- Professional Semester I
- Professional Semester II
- Professional Semester III
- Three Education Electives\*
- One Education Foundation course taken from the following list, or one appropriate approved Independent Study:
  - Education 4310 - Comparative Studies of Education in Developed and Third World Nations
  - Education 4311 - World Issues and Problems in Education
  - Education 4320 - Education and Society from a Sociological Perspective
  - Education 4321 - Social Issues in Education
  - Education 4341 - Foundations of Multicultural Education in Canada
  - Education 4360 - Studies in the History of Western Education
  - Education 4361 - History of Canadian Education
  - Education 4362 - Concepts of Childhood in the History of Education
  - Education 4380 - Developing a Philosophy of Education
  - Education 4381 - Ethics of Teaching
  - Education 4391 - Seminar in Educational Foundations (Series)

\*Students who have received a waiver for Education 2500 will complete four Education electives.

### 1. Teaching Majors

Each student is required to have an Education major. There are 11 Education majors accepted in the B.Ed. After Degree program:

- Art Education
- Career and Technology Studies (CTS):
  - Business Focus
  - New Media Focus
- Drama Education
- English Language Arts Education
- Indigenous Education
- Mathematics Education
- Modern Languages Education (French or French/Spanish)
- Music Education
- Physical Education
- Science Education
- Social Studies Education

Normally students in the B.Ed. After Degree program are expected to present in their major the same number of courses as students in the Combined Degrees Program (see **Combined Degrees, p. 243**). Any courses required to complete the major are in addition to the minimum 20 Education courses comprising the After Degree program.

**Note:** *Modern Language Education Majors in French and French/Spanish must have in their first degree a study experience similar to French 2250 or Spanish 2250 or equivalent, prior to graduation with an After-Degree B.Ed.*

### 2. Minors

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Education Minors (p. 159)** for information on Education minor requirements. Indigenous Education majors should refer to **Minors for Indigenous Education Majors (p. 155)** below.

**Note:** *For all majors, Education students may not include, in any minor, any of the courses (including cognates) which are included in the major.*

### 3. Minors for Indigenous Education Majors

Indigenous Education majors must declare a minor in one of the following areas:

- Art Education
- Career and Technology Studies (CTS): Business, Administration, Finance & Information Technology (BIT)
- Drama Education

- English Language Arts Education
- Mathematics Education
- Modern Languages Education (French or Spanish)
- Music Education
- Physical Education
- Science Education
- Social Studies Education

The minor for Indigenous Education majors includes seven non-Education courses in a school subject and an appropriate Education methods course.

The seven non-Education courses include five courses as defined in **Education Minors (p. 159)**, as well as two further courses drawn from any discipline within the minor.

**Note:** For all majors, Education students may not include, in any minor, any of the courses (including cognates) which are included in the major.

#### 4. Education Specializations

Students may elect to complete a specialization in addition to a major or minor, with the exception of those enrolled in the Indigenous Education major, who must complete Education 4576 - Indigenous Education Internship (Fall). Students will be eligible to receive an endorsement on their official academic transcript upon completion of a specialization. Please refer to **Education Specializations (p. 165)** for information on Education Specialization Requirements.

#### 5. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

## 8. POLICIES AND REGULATIONS

### a. Standards of Professional Conduct

As a Faculty within the University of Lethbridge, the Faculty of Education is committed to maintaining its students' freedom of thought, beliefs, opinions and expressions. As a professional Faculty, the Faculty of Education is committed to assisting students to become professionals. The Faculty, then, has the dual responsibility of fostering the academic freedom of students within the context of professional standards of conduct. The standards describe professional characteristics and behaviours that students are expected to develop and demonstrate during all field and on-campus components within the teacher education program. Appropriate demonstration of these professional standards will be judged by on-campus instructors and school personnel.

1. The student acts in a manner that respects the dignity and rights of all persons without prejudice as to race, religious beliefs, colour, gender, sexual orientation, physical characteristics, age, ancestry, or place of origin.
2. The student treats pupils, peers, school personnel, and faculty with dignity and respect and is considerate of their circumstances.
3. The student acts in a responsible manner which includes being punctual, dependable, trustworthy, consistent, and reliable.
4. Recognizing that attendance in practicum courses and professional semesters is a professional responsibility, students apprise appropriate personnel at the University and/or school in advance of unavoidable absences.
5. The student demonstrates empathy for others by showing concern for and having an understanding of others' feelings and/or ideas.
6. The student responds to feedback by listening to, evaluating, and responding to suggestions.
7. The student maintains positive interpersonal relationships with peers, faculty, school personnel and pupils by contributing, co-operating, participating, and working with others in a flexible and adaptable way.
8. The student shows enthusiasm and initiative by being actively involved as a participant while encouraging the involvement and participation of others.
9. The student shows maturity and judgment.
10. The student demonstrates a commitment to teaching through interest in learning about teaching, consulting, questioning, reading, and discussing.
11. The student criticizes (verbally or in writing) the professional competence or professional reputation of others only in confidence to proper officials and only after the other person has been informed of the criticism.
12. The student respects the confidentiality of information about pupils, peers, school personnel, or faculty received in confidence or in the course of professional duties.
13. The student acts in a manner which maintains the honour and dignity of the profession and the University of Lethbridge.
14. The student does not make representations on behalf of the Faculty of Education, the University of Lethbridge, the school, or the profession.

## b. Academic Regulations and Information

### 1. Academic Standards

Upon completion of the program and in order to graduate, students must present a cumulative GPA of 2.50 in their teaching major and a cumulative GPA of 2.50 or higher in all courses taken after admission to the Faculty of Education. In order to have a teaching minor endorsed on the official academic transcript, the student must also present a GPA of 2.50 or higher on all non-Education courses comprising the minor and, additionally, a minimum B- in the appropriate Education methods course.

### 2. Institutional Honours

Students who graduate with a Faculty GPA of 3.60 to 3.79 (calculated on all courses taken after admission to the Faculty of Education), who have demonstrated excellence in student teaching practica and the internship, and who present an admission GPA of 3.00 or higher are eligible to receive the Bachelor of Education degree 'With Distinction.' Students who meet the same criteria but present a Faculty GPA of 3.80 or higher are eligible to receive the Bachelor of Education degree 'With Great Distinction.'

### 3. Education Courses Taken Prior to Admission

With the exception of transfer students (who may bring in a maximum of five Education courses), Education courses other than Education 2500 taken prior to admission may not be counted toward the Bachelor of Education requirements.

**Note:** *Students intending to major in Music Education may complete courses designated Education 387X prior to admission with permission of the instructor.*

### 4. Education 2500 Prerequisite

Students who have completed a minimum of 24.0 credit hours with a GPA of 2.50 or higher, calculated on all courses including all transferable courses, may register directly in Education 2500. If available spaces are not filled, additional students will be enrolled on the basis of the proximity of their GPA to 2.50 and the number of courses remaining in their program (i.e., those with fewer remaining courses will be given preference). Such students will be added during the Add/Drop period upon application to Student Program Services in the Faculty of Education.

Students who do not receive a favourable recommendation, or who have withdrawn, may be permitted to re-enrol in the course after one full year and with permission of the Assistant Dean, Student Program Services.

### 5. Visiting Student Status

Authorization is required from Student Program Services in the Faculty of Education to study at other post-secondary institutions while enrolled in the Faculty of Education at the University of Lethbridge.

### 6. Registration Limits

Students may enrol in a maximum of six courses (18.0 credit hours) during a non-practicum term (spring or fall). Students may not register in a sixth course while enrolled in Professional Semester I, Professional Semester II, or Professional Semester III without special permission from the Assistant Dean, Student Program Services in the Faculty Education. Students may register in a maximum of three courses in Summer Session I, two courses in Summer Session II, and one course in Summer Session III.

### 7. Consecutive Professional Semesters

Only students who have completed a minimum of 25 term courses (75.0 credit hours) at the time of admission may complete Professional Semester I and Professional Semester II in the same academic year.

### 8. Waiver of Practica

Students who have appropriate and successful Grade I-12 Canadian classroom experience may have Education 2500 waived. Under exceptional circumstances students may have Professional Semester III waived. Students will be required to replace waived elements with Education electives. Requests must be submitted to the Assistant Dean, Student Program Services in the Faculty of Education. Students who have received 'not recommended' status after completion of Education 2500 are ineligible for a waiver.

### 9. Withdrawal Deadline

A student may withdraw from any component of a professional semester any time after the Extended Drop deadline until 3/4 of the course/practicum is completed; however, a student withdrawing from a professional semester component is withdrawing from the Faculty and must successfully apply for readmission before resuming studies toward the Bachelor of Education.

### 10. Required Withdrawal

A student is required to withdraw from the Faculty of Education if the following occurs:

- The GPA falls below 2.50 in Professional Semester I or Professional Semester II;
- The student fails any course, module, or practicum in any Professional Semester; or
- The student fails to meet the Standards of Professional Conduct. The student may be assigned a failing grade for the component where the Standards of Professional conduct were not met.

### c. Practicum Regulations and Information

The following policies will guide the assignment of students to schools:

#### 1. Placement Policy

While on campus and during practica, students are expected to adhere to the Standards of Professional Conduct set out by the Faculty of Education (see **Standards of Professional Conduct, p. 156**). The Faculty of Education reserves the right to deny or terminate a placement in any practicum course, including Education 2500, to any student if the Dean has reasonable grounds:

- The student has violated any part of the Faculty of Education's Standards of Professional Conduct;
- The student is unable to carry out the classroom responsibilities of that practicum; or
- The Dean believes denial or termination of a placement is necessary in order to protect the public interest.

Students whose practicum placements have been denied or terminated will be informed of the reasons in writing.

#### 2. General Policies

- a. All school placements within Zone 6 will be made by the Field Experience Office. Students must not contact schools with the intent of procuring an internship or student teaching placement.
- b. Professional Semester I and II placements will only be made within Zone 6 and Calgary area.
- c. Professional Semester III placements outside of Zone 6 are subject to the approval of the Assistant Dean, Field Experience and the Assistant Dean, Student Program Services in the Faculty Education.
- d. Students receiving a waiver of Education 2500 must complete Professional Semester III in Alberta.
- e. Students may complete only one practicum/internship with any one teacher associate or teacher mentor. Students will complete only one practicum/internship in any specific school.
- f. Students will not be placed in schools where family members are employed or where family members are pupils.
- g. No student will be placed in a school from which she or he graduated.
- h. Placements in Professional Semesters I and II will differ by a minimum of three grade levels.
- i. Students who refuse a placement may be required to withdraw from the practicum and reapply for admission to resume their studies in a subsequent year.
- j. Students who do not provide all relevant information at the time a placement is made may be required to withdraw from the practicum and reapply for admission to resume their studies in a subsequent year.
- k. Students who provide false information at the time a placement is made may be required to withdraw from the practicum and reapply for admission to resume their studies in a subsequent year.
- l. Students in the Faculty of Education may be required to complete hours outside of the regularly scheduled term during a practicum or internship. Term breaks, if scheduled, may have different dates than what is listed in the Academic Schedule.

#### 3. Location of Placements

The Faculty of Education collaborates with Education institutions throughout Zone 6 (which extends in Alberta from the British Columbia border to the Saskatchewan border and from the Montana border up to locations immediately south of the city of Calgary) and Calgary area. Students entering the Faculty of Education should note that practicum placements include locations anywhere within Zone 6. Students must be prepared to travel. Some locations require relocation Monday to Friday.

**Note:** Acceptance of an Offer of Admission to the Faculty of Education indicates acceptance of a possible requirement to travel to or relocate to practicum placements within Zone 6.

#### 4. Criminal Record Check (or equivalent)

Many school jurisdictions require criminal record checks from all individuals (including student teachers and interns) working with children and adolescents. Consequently, all students accepting an *Offer of Admission* from the Faculty of Education must immediately make application for a criminal record check including a Vulnerable Sector Check. The student is responsible for the cost of obtaining such documentation. Criminal record checks are not submitted to the Faculty of Education, but must be available for the student to present on Practicum Orientation Day should the school or school jurisdiction require it. Students who are unable to present an acceptable criminal record check for any reason may be denied a placement by the co-operating school, the school jurisdiction, or the Assistant Dean, Field Experiences. The Faculty of Education does not guarantee an alternate placement. In the event a student cannot be placed, the student will be unable to complete the program and thus will be required to withdraw from both the practicum and the Faculty.

#### 5. Out of Zone and International Professional Semester III Placements

Students may apply to the Assistant Dean, Field Experience to complete Professional Semester III outside of Zone 6. Further, it is possible for students to complete Professional Semester III in an international placement. Students must apply well in advance of the intended term, and will be required to request statements of support from teacher associates and previous practicum supervisors. Only students with an outstanding record of professionalism and an outstanding record of classroom teaching in both Professional Semesters I and II will be granted Professional Semester III placements outside of Zone 6 (including international locations).

Some restrictions on out of zone and international placements do exist for students completing certain specializations. Students are encouraged to contact the Assistant Dean, Field Experiences, for further information.

In order to have an international placement designated on the official academic transcript, students must register in Education 4577 - International Education Internship. This internship has as a prerequisite (one of the following courses):

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

\*Education 4311 - World Issues and Problems in Education

Education 4783 - Culturally Different Students

Education 4920 - Study Tour

\*These courses would also fulfill the Education Foundation requirement.

#### d. Special Study Arrangements

##### 1. Applied Studies

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program in the Faculty of Education is administered through Career Bridge - Co-operative Education & Applied Studies (AH151; 403-329-2000; artsci.coop@uleth.ca; www.ulethbridge.ca/career-bridge) in consultation with the Associate Dean, Undergraduate Programs.

##### 2. Independent Study

Students may be permitted to earn credit for Independent Study, which is designated by the course number Education 4990. Independent Study may be undertaken only in areas not covered by courses offered in the Education curriculum. Independent Study proposals must be submitted to a faculty member who agrees to serve as examiner for the proposed study. Formal registration occurs after approval by the faculty member, Student Program Services, and the Dean. A maximum of two Independent Studies may count toward requirements for the B.Ed. portion of the Basic Teacher Education programs (see **Academic Regulations, Exceeding Course Limits, p. 56**). Students are advised to register in the term in which the work will be completed.

##### 3. Study Tours

Credit may be received for a maximum of two courses in Education 4920 - Study Tour. Study Tours must be approved in advance by the Assistant Dean, Student Program Services in the Faculty of Education for acceptance in the student's program.

### 9. EDUCATION MINORS

Students may elect to complete a minor in addition to a major. The minor must be a school subject, and must not be the same subject as the major.

There are 20 Education minors: Art Education; Blackfoot Language Education; Career and Technology Studies (CTS): Agriculture Focus; Career and Technology Studies (CTS): Business, Administration, Finance & Information Technology (BIT); Career and Technology Studies (CTS): Communication Focus; Career and Technology Studies (CTS): Community Health Focus; Career and Technology Studies (CTS): Computer Technologies Focus; Career and Technology Studies (CTS): Natural Resources Focus; Drama Education; English Language Arts Education; Indigenous Education; Japanese Language Education; Mathematics Education; Modern Languages Education (French or Spanish); Music Education; Physical Education; Religious Studies Education; Science Education; and Social Studies Education.

With the exception of the minor for Indigenous Education majors, minors include five non-Education courses and an appropriate Education methods course, usually selected from the Education 3700 series. The minor for Indigenous Education majors includes seven non-Education courses in a school subject and an appropriate Education methods course.

**Note:** For Indigenous Education majors, the additional two non-Education courses required for completion of a minor must include two electives in a school subject (refer to **Minors for Indigenous Education Majors, p. 154**).

Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor.

For all majors, Education students may not include, in any minor, any of the courses (including cognates) which are included in the major.

Students are urged to seek advice from Student Program Services in the Faculty of Education regarding appropriate course choice and an appropriate Education course.

#### a. Art Education

##### Required courses:

Art 2010 - Drawing Studio I

Art History 1002 - World Art Since 1400

Three Art Studio Electives (9.0 credit hours)

#### b. Blackfoot Language Education

Where applicable, Blackfoot Language Education minors complete the Education 4272 course with Modern Languages Education minors.

##### Required courses:

One course in Linguistics

Four courses in Blackfoot



### c. Career and Technology Studies (CTS) Minors

Students may complete up to two Career and Technology Studies (CTS) minors, which will be reflected on their transcript as:

Education 3700 - Applied Principles of Curriculum and Instruction for Non-Majors (Series), CTS I

Education 3700 - Applied Principles of Curriculum and Instruction for Non-Majors (Series), CTS II

**Note:** Students with a major in Career and Technology Studies: Business Focus may elect to complete a minor in Career and Technology Studies providing the minor is not Business, Administration, Finance & Information Technology (BIT).

B.A./B.Ed. or B.Sc./B.Ed. students who choose to complete a minor in Career and Technology Studies may be required to complete courses from the Dhillon School of Business. Although required for the minor, they do not meet degree or major requirements. Therefore, any Management courses are counted above the 50 courses required to complete the degrees.

#### 1. Career and Technology Studies (CTS): Agricultural Focus

The CTS: Agricultural Focus minor supports the Alberta Education CTS Agriculture strand.

##### Required courses:

##### Five of:

- Agricultural Studies 1000 - The Evolution of Agriculture
- Biology 1010 - Cellular Basis of Life
- Biology 1020 - Diversity of Life
- <sup>2</sup>Biology 2000 - Principles of Genetics
- <sup>2</sup>Biology 2200 - Principles of Ecology
- <sup>2</sup>Biology 3400 - Principles of Microbiology
- <sup>1</sup>Biology 3420 - Animal Physiology
- <sup>2</sup>Biology 3460 - Plant Physiology
- <sup>2</sup>Biology 3520 - Invertebrate Zoology
- <sup>2</sup>Biology 3560 - Integrative Plant Biology
- <sup>2</sup>Biology 3700 - Ecosystem Ecology
- <sup>2</sup>Biology 4200 - Techniques in Molecular Biology
- <sup>2</sup>Biology 4800 - Biology of Parasitism
- Economics 1010 - Introduction to Microeconomics
- <sup>2</sup>Economics 3010 - Intermediate Microeconomic Theory
- <sup>2</sup>Economics 3210 - Natural Resource Economics
- <sup>2</sup>Economics 3220 - Environmental Economics
- <sup>2</sup>Economics 3300 - Agricultural Policy I
- <sup>1</sup>Economics 4300 - Agricultural Policy II
- Environmental Science 2000 - Fundamentals of Environmental Science
- Geography 1000 - Introduction to Physical Geography
- <sup>2</sup>Geography 2030 - Geomorphology
- <sup>2</sup>Geography 2300 - Weather and Climate
- Geography 2535 - Introduction to Planning
- <sup>2</sup>Geography 2735 - Introduction to Geographical Information Science
- <sup>2</sup>Geography 3080 - Soils
- <sup>1</sup>Geography 3210 - Food Systems Analysis
- <sup>1</sup>Geography 3400 - Hydrology
- <sup>1</sup>Geography 3720 - Remote Sensing
- <sup>1</sup>Geography 3740 - Geographical Information Systems
- <sup>2</sup>Geography 4065 - Irrigation Science
- <sup>1</sup>Marketing 2020 - Marketing
- <sup>2</sup>Marketing 3210 - Consumer Behaviour
- <sup>2</sup>Marketing 3862 - Digital Marketing

##### Notes

<sup>1</sup>Has prerequisite.

<sup>2</sup>Has prerequisite which may be used to complete the requirements of the minor.

#### 2. Career and Technology Studies (CTS): Business, Administration, Finance & Information Technology (BIT)

##### Required courses:

Accounting 2100 - Introductory Accounting

Management 1000 - Introduction to Management

Computer Science 1000 - Introduction to Computer Science

##### One of:

- Economics 1010 - Introduction to Microeconomics
- Economics 1012 - Introduction to Macroeconomics
- Economics 2140 - Introduction to Financial Economics

One additional Management, Computer Science or Economics courses

### 3. Career and Technology Studies (CTS): Communication Focus

The CTS: Communication Focus minor supports the Alberta Education CTS Communication strand.

#### Required courses:

##### Five of:

- <sup>3</sup> Art 3007 - Print Studio III
- <sup>3</sup> Art 3027 - Photography Studio II
- <sup>3</sup> Art 3028 - Photography Studio III
- Art History 1002 - World Art Since 1400
- Computer Science 1000 - Introduction to Computer Science
- <sup>2</sup> Computer Science 3710 - Computer Graphics
- Drama 1000 - Introduction to Dramatic Arts
- <sup>3</sup> Drama 2320 - Voice I
- Drama 2350 - Speech Communication
- English 1900 - Introduction to Language and Literature
- <sup>3</sup> English 2800 - Rhetoric
- <sup>3</sup> English 3800 - Creative Writing
- <sup>1</sup> Fine Arts 3850 - Topics in Fine Arts
- <sup>1</sup> Fine Arts 4850 - Topics in Fine Arts
- <sup>2</sup> Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour
- Management 2081 - Professional Communications Skills
- <sup>3</sup> Marketing 3862 - Digital Marketing
- Music 2500 - Introduction to Music Technology

#### Notes

<sup>1</sup> If the topic is applicable to the minor.

<sup>2</sup> Has prerequisite.

<sup>3</sup> Has prerequisite which may be used to complete the requirements of the minor.

### 4. Career and Technology Studies (CTS): Community Health Focus

#### Required courses:

##### Five of:

- Anthropology 1000 - The Anthropological Perspective
- <sup>2</sup> Anthropology 2200 - The Ethnographic Imagination
- <sup>2</sup> Anthropology 2510 - Language, Culture, and Communication
- <sup>2</sup> Anthropology 2600 - Anthropology of Gender
- <sup>2</sup> Anthropology 3200 - Power and Discourse
- <sup>2</sup> Anthropology 3310 - Race and Ethnicity
- <sup>2</sup> Anthropology 3520 - Medical Anthropology
- <sup>2</sup> Anthropology 3900 - Social and Cultural Organization (Series)
- Biochemistry 2300 - Elements of Human Nutrition
- <sup>2</sup> Biology 2003/Health Sciences 2003 - Epidemiology
- Chemistry 1110 - Chemistry for Life Sciences I
- <sup>2</sup> Chemistry 2120 - Chemistry for Life Sciences II
- Environmental Science 2000 - Fundamentals of Environmental Science
- Kinesiology 1000 - Wellness and Physical Activity
- Kinesiology 2110 - Biophysical Perspectives
- Kinesiology 2130 - Humanities Perspectives
- Kinesiology 2140 - Psychological Perspectives
- Kinesiology 2150 - Sociological Perspectives
- Kinesiology 2600 - Functional Human Anatomy
- <sup>1</sup> Kinesiology 3610 - Exercise Physiology
- <sup>1</sup> Kinesiology 3630 - Growth, Development and Aging
- <sup>2</sup> Neuroscience 3610 - Human Neuropsychology
- <sup>2</sup> Psychology 2110 - Introduction to Child Development
- <sup>2</sup> Psychology 2330 - Learning and Cognition
- <sup>2</sup> Psychology 2800 - Social Psychology
- <sup>2</sup> Psychology 3120 - Psychology of Aging
- <sup>2</sup> Psychology 3500 - Abnormal Psychology
- Sociology 1000 - Introduction to Sociology
- <sup>2</sup> Sociology 2010 - Canadian Society
- <sup>2</sup> Sociology 2410 - Sociology of Gender
- Sociology 3020 - Social Problems
- <sup>2</sup> Sociology 3310 - Sociology of Families
- <sup>2</sup> Sociology 3340 - Medical Sociology

#### Notes

<sup>1</sup> Has prerequisite.

<sup>2</sup> Has prerequisite which may be used to complete the requirements of the minor.

## 5. Career and Technology Studies (CTS): Computer Technologies Focus

The CTS: Computer Technologies Focus minor supports the Alberta Education CTS Electro-Technologies and Information Processing strands.

**Required courses:****Five of:**

- Computer Science 1000 - Introduction to Computer Science
- Computer Science 1620 - Fundamentals of Programming I
- <sup>1</sup> Computer Science 2610 - Introduction to Digital Systems
- <sup>1</sup> Computer Science 2620 - Fundamentals of Programming II
- <sup>2</sup> Computer Science 2720 - Practical Software Development
- <sup>1</sup> Computer Science 3615 - Computer Architecture
- <sup>2</sup> Computer Science 3620 - Data Structures and Algorithms
- <sup>2</sup> Computer Science 3655 - Operating Systems
- <sup>2</sup> Computer Science 3660 - Introduction to Database Systems
- <sup>2</sup> Computer Science 3710 - Computer Graphics
- <sup>1</sup> Computer Science 3740 - Programming Languages
- <sup>2</sup> Computer Science 3750 - Artificial Intelligence
- <sup>2</sup> Computer Science 3780 - Data Communications and Networking
- <sup>2</sup> Computer Science 4600 - Compiler Design
- <sup>2</sup> Computer Science 4660 - Database Management Systems
- <sup>2</sup> Marketing 3862 - Digital Marketing

**Notes**

<sup>1</sup>Has prerequisite.

<sup>2</sup>Has prerequisite which may be used to complete the requirements of the minor.

## 6. Career and Technology Studies (CTS): Natural Resources Focus

The CTS: Natural Resources Focus minor supports the Alberta Education CTS Energy and Mines and Forestry strands.

**Required courses:****Five of:**

- Biology 1010 - Cellular Basis of Life
- Biology 1020 - Diversity of Life
- <sup>2</sup> Biology 2000 - Principles of Genetics
- <sup>1</sup> Biology 2200 - Principles of Ecology
- <sup>2</sup> Biology 3460 - Plant Physiology
- <sup>2</sup> Biology 3520 - Invertebrate Zoology
- <sup>2</sup> Biology 3560 - Integrative Plant Biology
- <sup>2</sup> Biology 3700 - Ecosystem Ecology
- Chemistry 1000 - General Chemistry I
- <sup>1</sup> Chemistry 2000 - General Chemistry II
- Chemistry 1110 - Chemistry for Life Sciences I
- Computer Science 1000 - Introduction to Computer Science
- <sup>1</sup> Economics 3210 - Natural Resource Economics
- <sup>1</sup> Economics 3220 - Environmental Economics
- <sup>1</sup> Economics 3300 - Agricultural Policy I
- Environmental Science 2000 - Fundamentals of Environmental Science
- Geography 1000 - Introduction to Physical Geography
- Geography 2000 - World Regional Geography
- <sup>2</sup> Geography 2030 - Geomorphology
- <sup>2</sup> Geography 2070 - Hazards, Disasters and Global Change
- <sup>2</sup> Geography 2300 - Weather and Climate
- Geography 2535 - Introduction to Planning
- Geography 2600 - Canada
- <sup>2</sup> Geography 2700 - Geographical Data and Analysis
- <sup>2</sup> Geography 2735 - Introduction to Geographical Information Science
- <sup>2</sup> Geography 3080 - Soils
- <sup>2</sup> Geography 3210 - Food Systems Analysis
- <sup>2</sup> Geography 3400 - Hydrology
- <sup>2</sup> Geography 3720 - Remote Sensing
- <sup>2</sup> Geography 3740 - Geographical Information Systems
- <sup>2</sup> Geography 4065 - Irrigation Science
- Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour
- <sup>1</sup> Marketing 2020 - Marketing
- <sup>2</sup> Marketing 3210 - Consumer Behaviour
- <sup>2</sup> Marketing 3862 - Digital Marketing

**Notes**<sup>1</sup>Has prerequisite.<sup>2</sup>Has prerequisite which may be used to complete the requirements of the minor.**7. Career and Technology Studies (CTS): New Media Focus****Required courses:**

New Media 1000 - Introduction to New Media

New Media 2005 - Design Fundamentals for New Media

New Media 2010 - Visual Communications for New Media

New Media 3520 - Web Design and Development

**One of:**

New Media 2030 - Digital Video Production

New Media 3380 - Programming for Artists

**d. Drama Education****Required courses:**

Drama 1000 - Introduction to Dramatic Arts

**Two of:**<sup>1</sup>Drama 2310 - Acting I

Drama 2320 - Voice I

Drama 2340 - Movement I

<sup>1</sup>Drama 2510 - Theatre for Young Audiences I<sup>1</sup>Drama 2740 - Devised Theatre I

Two Drama electives

**Notes**<sup>1</sup>Has prerequisite which may be used to complete the requirements of the minor.**e. English Language Arts Education****Required courses:**

English 1900 - Introduction to Language and Literature

English 2610 - Survey of Children's Literature

**Two of:**

English 2100 - Poetry

English 2200 - Drama

English 2300 - Prose Fiction

English 2720 - Approaches to Literature (Series)

English 2800 - Rhetoric

English 2810 - Grammar

**One of:**

English 2000 - Survey of Canadian Literature

English 3001 - Canadian Poetry

English 3002 - Contemporary Canadian Drama

English 3810 - Contemporary Canadian Literature

**f. Indigenous Education****Required courses:**

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

Indigenous Studies 2000 - Native American Philosophy

Two additional courses in Indigenous Studies or Native Languages

**One of:**

Blackfoot 2210 - Structure of the Blackfoot Language

Cree 2210 - Structure of the Plains Cree Language

**g. Japanese Language Education**

Where applicable, Japanese Language Education minors complete the Education 4272 course with Modern Languages Education minors.

**Required courses:**

One course in Linguistics

Four courses in Japanese

**h. Mathematics Education****Required courses:**

Mathematics 1410 - Elementary Linear Algebra

Mathematics 2000 - Mathematical Concepts

Three courses from Algebra, Analysis, Calculus, Computer Science, Geometry or Statistics

**i. Modern Languages Education (French, Spanish)**

**Note:** Students with a major in Modern Languages Education may elect to complete a minor in Modern Languages Education providing the minor is in a different language.

Modern Languages Education: French

**Required courses:**

One course in Linguistics

Four courses in French

Modern Languages Education: Spanish

**Required courses:**

One course in Linguistics

Four courses in Spanish

**j. Music Education****History**

Music 1000 - Introduction to Music

**Theory**

Music 1160 - Foundations of Music Theory

<sup>1</sup> Music 2161 - Musicianship Skills I

Music 2260 - Harmony in the Common Practice

<sup>1</sup> Music 2261 - Musicianship Skills II

**One of:**

Music 2500 - Introduction to Music Technology

Music 3030 - Film Music

Music 3200 - Popular Music (Series)

Music 3721 - World Music

Two Music Ensemble courses (1.5 credit hours each)

**Notes**

<sup>1</sup> 1.5 credit hours.

**k. Physical Education****Required courses:**

Kinesiology 1000 - Wellness and Physical Activity

**One of:**

Kinesiology 2110 - Biophysical Perspectives

Kinesiology 2600 - Functional Human Anatomy

**One of:**

Kinesiology 2160 - Management Perspectives

Kinesiology 3300 - Leadership Skills Development

Physical Activity courses (6.0 credit hours in total)

**l. Religious Studies Education****Required courses:**

Religious Studies 1000 - Introduction to World Religions

Four Religious Studies courses or alternates approved by Student Program Services in the Faculty of Education

**m. Science Education****Required courses:**

One course from each of two areas:

Biochemistry

Biology

Chemistry

Physical Geography (all Geography courses designated as Science)

Physics

Three courses from any of the following disciplines:

Archaeology (courses designated as Science)

Astronomy

Biochemistry

Biology

Chemistry

Environmental Science

Geology

Physical Geography (all Geography courses designated as Science)

Physics

**Note:** Three of the five courses must be above the 1000 level.

**n. Social Studies Education****Required courses:**

One Canadian History course

Four courses from any of the following disciplines:

Economics  
Geography  
History  
Political Science

**Note:** Three of the five courses must be above the 1000 level.

**10. EDUCATION SPECIALIZATIONS**

Students may elect to complete a specialization in addition to a major or minor. Students will be eligible to receive an endorsement on their official academic transcript upon completion of a specialization. Education students completing a major or minor may not include, in the specialization, any of the courses that are included in the minimum requirements for their major or minor.

**a. Inclusive Education****Required courses:**

Education 4582 - PS III, Inclusive Education Internship (Spring) (15.0 credit hours) (spring only)

Education 43XX - Educational Foundation

**Three of:**

Education 4263 - Language Arts Instruction for Students with Learning Difficulties  
Education 4520 - Specialized Practicum (Series) (in an inclusive education setting)  
Education 4702 - Individualizing Instruction in the Regular Classroom  
Education 4703 - Assessment for Individualized Educational Programming  
Education 4709 - Issues in Special Education (Series)

**Note:** Completion of the course work is a prerequisite to registration in Education 4582 - PS III, Inclusive Education Internship (Spring).

**b. Technology in Education****Required courses:**

Education 4583 - PS III, Technology in Education Internship (15.0 credit hours)

**One of:**

Education 4760 - Communication Technologies in the Curriculum  
Education 4762 - Problem Solving with Communication Technologies  
Education 4764 - The Internet and Education  
Education 4765 - New Media and Learning  
Education 4766 - Web-Based Learning  
Education 4767 - Web-Based Teaching

**Three of:**

Computer Science 1000 - Introduction to Computer Science  
<sup>1</sup> Education 4391 - Seminar in Educational Foundations (Series) (Educational Technology: A Philosophical Approach)  
Education 4760 - Communication Technologies in the Curriculum  
Education 4762 - Problem Solving with Communication Technologies  
Education 4764 - The Internet and Education  
Education 4765 - New Media and Learning  
Education 4766 - Web-Based Learning  
Education 4767 - Web-Based Teaching  
Education 4769 - Educational Issues in Communication Technologies (Series)  
Education 4950 - Professional Development Topics (with a Technology focus)  
Education 4980 - Applied Studies (with a technology focus)  
Education 4990 - Independent Study (with a technology focus)  
Management 3062 - Information Systems and Data Analytics  
Marketing 3862 - Digital Marketing  
Music 2500 - Introduction to Music Technology  
New Media 1000 - Introduction to New Media  
Other technology focus courses as approved by the Assistant Dean, Student Program Services in the Faculty of Education

**Notes**

<sup>1</sup> Students are advised that in order to complete the Combined Degrees program within 50 courses, they may be required to choose Education 4391. If chosen, this course would also fulfill the Education Foundation requirement. Contact Student Program Services in the Faculty of Education for more information.

**Note:** Completion of the course work is a prerequisite to registration in Education 4583 - PS III, Technology in Education Internship.

## 11. DIPLOMA PROGRAM IN EDUCATION (D.P.E.)

The Diploma Program in Education is designed for certified practicing educators who wish to engage in further professional development.

Completion of the program results in the credential, Diploma in Education.

### a. Student Initiated Diploma Program

The Student Initiated Diploma is available to teachers who are self-motivated and self-directed and who are also able to identify and develop programs to meet their own specific needs. This program consists of eight term courses (24.0 credit hours). The courses are proposed by the student at the time of admission according to a topic or theme related to the student's professional development needs or interests. Programs are individualized and courses are approved by the Assistant Dean, Student Program Services in the Faculty of Education, in consultation with an appropriate faculty advisor.

The designation of Student Initiated Major with a specific text record, as authorized and approved by the Faculty of Education, will appear on the recipient's official academic transcript.

#### 1. Program Requirements

- a. The program consists of the successful completion of eight term courses (24.0 credit hours), which may consist of a combination of 3.0- and 1.5-credit-hour courses, as follows:
  - Six term courses (18.0 credit hours) in Education at the 3000 level or above.
  - Two term courses (6.0 credit hours) from any Faculty or School at the University of Lethbridge, including Education courses at the 3000 level or above.
- b. Students must maintain a minimum program GPA of 3.00.

#### 2. Academic Policies and Regulations

- a. Prior to completing the Diploma, and if accepted into the Master of Education (M.Ed.) program, students may apply to have courses transferred into the M.Ed. program. Students apply to the Associate Dean of Graduate Studies and Research in the Faculty of Education who decides which courses transfer. Admission to the M.Ed. program is not guaranteed.
- b. Prior to completing the M.Ed. degree, students may apply to have courses transferred into a Student Initiated Diploma program. Students apply to the Assistant Dean, Student Program Services in the Faculty of Education.
- c. Residence Requirement: A minimum of 15.0 credit hours must be completed at the University of Lethbridge.
- d. Permission may be given by the Assistant Dean, Student Program Services in the Faculty of Education, for the inclusion of credit for courses at other levels.
- e. At the time of admission, qualifying courses from other institutions may be transferred up to a maximum of 6.0 credit hours. Other courses from other institutions, up to a maximum of 3.0 credit hours, may be transferred during the program provided prior approval is granted by the Assistant Dean, Student Program Services in the Faculty of Education.
- f. At the time of admission, students may be permitted to use for credit prior courses completed at the University of Lethbridge provided such courses have not been counted for other credentials.
- g. Students are required to complete their entire program within five years from the date of admission. Students who fail to complete the program within five years may apply for an extension from the Assistant Dean, Student Program Services in the Faculty of Education.

# FACULTY OF FINE ARTS

<b>1. GENERAL PHILOSOPHY AND PROGRAMS ..</b>	<b>168</b>	<b>6. APPLIED STUDIES AND CO-OPERATIVE</b>	<b>172</b>
<b>2. ADVISING AND INFORMATION .....</b>	<b>168</b>	<b>EDUCATION .....</b>	<b>172</b>
<b>3. ADMISSION .....</b>	<b>168</b>	<b>7. INDEPENDENT STUDY .....</b>	<b>172</b>
a. Bachelor of Arts .....	168	<b>8. TOPICS COURSES .....</b>	<b>173</b>
b. Bachelor of Fine Arts - Art .....	168	<b>9. DEGREE PROGRAMS .....</b>	<b>173</b>
c. Bachelor of Fine Arts - Dramatic Arts .....	168	a. B.A. ....	173
d. Bachelor of Fine Arts - Indigenous Art .....	168	b. B.F.A. - Art .....	175
e. Bachelor of Fine Arts - Multidisciplinary .....	168	c. B.F.A. - Dramatic Arts .....	178
f. Bachelor of Fine Arts - New Media .....	168	d. B.F.A. - Indigenous Art .....	180
g. Bachelor of Music .....	168	e. B.F.A. - Multidisciplinary .....	182
h. Post-Diploma Degree Programs (After a		f. B.F.A. - New Media .....	183
Two- or Three-Year Diploma) .....	169	g. B.Mus. ....	185
i. Post-Diploma B.F.A. - Multidisciplinary		h. Post-Diploma Degree Program (Admission	
Degree Program (After a Two- or Three-		after a Two-Year Diploma) .....	190
Year Diploma) .....	170	i. Post-Diploma Degree Program (Admission	
j. Bachelor of Arts, Bachelor of Fine Arts,		after a Three-Year Diploma) .....	190
or Bachelor of Music After an Approved		j. Post-Diploma B.F.A. - Multidisciplinary	
Degree .....	170	Degree Program (Admission after a Two-	
k. Bachelor of Arts and Science .....	170	or Three-Year Diploma) .....	191
l. Bachelor of Arts/Bachelor of Education .....	170	k. BASc. ....	191
m. Bachelor of Fine Arts - Art/Bachelor of		l. B.F.A. - Art/B.Ed. ....	191
Education .....	170	m. B.F.A. - Dramatic Arts/B.Ed. ....	191
n. Bachelor of Fine Arts - Dramatic Arts/		n. B.F.A. - New Media/B.Ed. ....	191
Bachelor of Education .....	170	o. B.Mus./B.Ed. ....	191
o. Bachelor of Fine Arts - New Media/		p. Post-Diploma B.F.A. - Art/B.Ed. ....	191
Bachelor of Education .....	170	q. Post-Diploma B.F.A. - Dramatic Arts/B.Ed. .	191
p. Bachelor of Music/Bachelor of Education ...	170	r. Post-Diploma B.Mus./B.Ed. ....	191
q. Bachelor of Arts/Bachelor of Management .	170	s. B.F.A. - New Media/B.Mgt. ....	191
r. Bachelor of Fine Arts - New Media/		t. B.F.A. - New Media/B.Sc. (Computer	
Bachelor of Management .....	170	Science) .....	191
s. Bachelor of Fine Arts - New Media/		u. B.A. After an Approved Degree .....	191
Bachelor of Science (Computer Science) ...	170	v. B.F.A. or B.Mus. After an Approved	
t. Post-Diploma Combined Degrees Programs		Degree .....	191
in Fine Arts and Education .....	170	<b>10. DOUBLE MAJORS .....</b>	<b>192</b>
u. Returning after an Absence from the		<b>11. ART GALLERY .....</b>	<b>192</b>
Faculty of Fine Arts .....	170	<b>12. UNIVERSITY THEATRES .....</b>	<b>192</b>
v. Readmission after Required Withdrawal ...	170	<b>13. CONSERVATORY OF MUSIC .....</b>	<b>192</b>
<b>4. ACADEMIC STANDARDS .....</b>	<b>171</b>	a. Music Conservatory Fees .....	192
a. Academic Standards for Bachelor of Arts ..	171	b. Theory Program .....	192
b. Academic Standards for Bachelor of Fine		c. Music Ensemble Activity Fees .....	192
Arts - Art, Bachelor of Fine Arts -			
Dramatic Arts, Bachelor of Fine Arts -			
Indigenous Art, Bachelor of Fine Arts -			
Multidisciplinary, Bachelor of Fine Arts -			
New Media, and Bachelor of Music .....	171		
<b>5. INSTITUTIONAL HONOURS .....</b>	<b>172</b>		
a. Dean's Honour List .....	172		
b. Standards for Distinction and Great			
Distinction .....	172		



## I. GENERAL PHILOSOPHY AND PROGRAMS

The Faculty of Fine Arts incorporates the Departments of Art, Drama, Music, and New Media which include the Art Gallery, Music Conservatory and the University Theatres. The Faculty emphasizes the acquisition of knowledge and the development of analytical skills and imagination necessary to both create and respond with aesthetic intelligence to the fine arts in a global community. Small class sizes, an integrative approach which allows for cross-disciplinary fertilization and an intrinsic emphasis on the development of valuable job skills are distinguishing features. The Faculty provides opportunities for students to demonstrate their creative ability and skills through exhibitions and performances, acknowledging that audience exposure and the resulting feedback and criticism is essential to learning in all of the Fine Arts disciplines. The Faculty is also committed to strengthening the creative and artistic dimensions of the University's total program and its commitment to the philosophy of a liberal education.

Degrees offered by the Faculty of Fine Arts are the Bachelor of Arts, the Bachelor of Fine Arts - Art, the Bachelor of Fine Arts - Dramatic Arts, the Bachelor of Fine Arts - Indigenous Art, the Bachelor of Fine Arts - Multidisciplinary, the Bachelor of Fine Arts - New Media, and the Bachelor of Music. The requirements for these degrees are set out in this section.

The Faculty of Fine Arts also offers a post-diploma program (admission is based on a two- or three-year diploma) leading to the Bachelor of Fine Arts - Art, the Bachelor of Fine Arts - Dramatic Arts, the Bachelor of Fine Arts - Multidisciplinary, and the Bachelor of Music.

Students with previous degrees may pursue the degree Bachelor of Arts, Bachelor of Fine Arts - Art, Bachelor of Fine Arts - Dramatic Arts, Bachelor of Fine Arts - Indigenous Art, Bachelor of Fine Arts - Multidisciplinary, Bachelor of Fine Arts - New Media, or Bachelor of Music.

For more information about programs offered by the Faculty of Fine Arts, contact an academic advisor in the Faculty of Fine Arts (W660; tel. 403-329-2691; email: [finearts.advising@uleth.ca](mailto:finearts.advising@uleth.ca)).

## 2. ADVISING AND INFORMATION

Students must contact an academic advisor (W660; tel. 403-329-2691; email: [finearts.advising@uleth.ca](mailto:finearts.advising@uleth.ca)) in the Faculty of Fine Arts for advising and information about their programs.

## 3. ADMISSION

Applicants to Faculty of Fine Arts degree programs are advised to refer to **Admission (p. 21)** and [www.ulethbridge.ca/ross/admissions/undergrad](http://www.ulethbridge.ca/ross/admissions/undergrad) for general admission requirements, additional admission requirements, policies, and application deadlines.

Enrolment in Faculty of Fine Arts degree programs is limited, based on major, and fulfilment of the minimum admission requirements does not guarantee admission. The Faculty of Fine Arts reserves the right of selection of all applicants for admission and readmission based on admission average.

### a. Bachelor of Arts

The Bachelor of Arts degree program is available to applicants who meet the general admission requirements outlined in **Admission (p. 21)**.

### b. Bachelor of Fine Arts - Art

The B.F.A. - Art degree program is available to applicants who meet the general admission requirements outlined in **Admission (p. 21)**.

### c. Bachelor of Fine Arts - Dramatic Arts

The B.F.A. - Dramatic Arts degree program is available to applicants who meet the general admission requirements outlined in **Admission (p. 21)**.

### d. Bachelor of Fine Arts - Indigenous Art

The B.F.A. - Indigenous Art degree program is available to applicants who meet the general admission requirements outlined in **Admission (p. 21)**.

### e. Bachelor of Fine Arts - Multidisciplinary

The B.F.A. - Multidisciplinary degree program is available to applicants who meet the general admission requirements outlined in **Admission (p. 21)**.

### f. Bachelor of Fine Arts - New Media

The B.F.A. - New Media degree program is available to applicants who meet the general admission requirements outlined in **Admission (p. 21)**.

### g. Bachelor of Music

#### I. Music Major

In addition to the general admission requirements outlined in **Admission (p. 21)**, all applicants to the B.Mus. degree program must successfully audition for Music Studio before the appropriate Application and Document Deadlines (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Audition procedures are provided below.

#### Music Audition Information

Instrumental and vocal auditions are held in February, March, and May for fall admission. Although a live audition is highly preferred, it is possible to submit an audition video to the Department of Music by the Application and Document Deadlines (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)).

**Note:** Some entrance scholarships are available based on live auditions and completing the appropriate scholarship application form by the deadline (Early entrance - March 1, others - June 1).

Audition dates and additional information:

[www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements](http://www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements)

Audition application:

[www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements/studio-audition-application-form](http://www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements/studio-audition-application-form)

Instrumental and vocal auditions must be accompanied unless the piece is written as an unaccompanied solo. Applicants are encouraged to supply the accompanist. If that is not possible, please call 403-329-2495 at least two weeks prior to the scheduled audition.

Students who wish an emphasis in composition must successfully complete a composition audition.

Requests for a specific studio instructor should be made at the time of the audition. Every effort will be made to accommodate the request, but final assignment of instructors rests with the Department of Music.

For more information, visit the Faculty of Fine Arts website at [www.ulethbridge.ca/finearts/admissions](http://www.ulethbridge.ca/finearts/admissions), contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email [finearts.admissions@uleth.ca](mailto:finearts.admissions@uleth.ca).

## 2. Digital Audio Arts Major

The B.Mus. degree program with a major in Digital Audio Arts is available to applicants who meet the general admission requirements outlined in **Admission (p. 21)**.

In addition to the general admission requirements outlined in **Admission (p. 21)**, all applicants to the B.Mus. degree program with a major in Digital Audio Arts must submit a portfolio for consideration by the appropriate Application and Document Deadlines (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)).

Enrolment in the Digital Audio Arts major is limited and admission is competitive based on the portfolio. Details are given below.

## h. Post-Diploma Degree Programs (After a Two- or Three-Year Diploma)

### 1. Available Programs

The Faculty of Fine Arts currently offers the following Post-Diploma degree programs after the completion of an approved two- or three-year college diploma in a related discipline:

- B.F.A. - Art
- B.F.A. - Dramatic Arts
- B.Mus. (Music major)

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to Post-Diploma degree programs in the Faculty of Fine Arts. The Faculty will consider diplomas not previously approved for admission on a case-by-case basis.<sup>1</sup>

<sup>1</sup> Approval is dependent upon the diploma program containing the courses required for the first two years of the B.F.A. - Art, B.F.A. - Dramatic Arts, or B.Mus. program. The diploma program must include a minimum of 16 courses in the discipline.

### 2. Choice of Major

Applicants must declare the major that most closely corresponds to the content of the diploma. For example, a Post-Diploma B.F.A. - Art applicant whose diploma emphasized studio practice would declare the Art Studio major.

3. Enrolment in Post-Diploma degree programs in the Faculty of Fine Arts is limited and based on major, and fulfilment of the minimum admission requirements does not guarantee admission. The Faculty of Fine Arts reserves the right of selection of all applicants for admission and readmission based on admission average. For Additional Admission Requirements (see [www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements](http://www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements)). For audition deadlines see Application and Document Deadlines (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)).

## Audition Content

### Dramatic Arts:

Performance majors: Audition/interview.

Audition/interview requirements are also available at [www.ulethbridge.ca/finearts/admissions](http://www.ulethbridge.ca/finearts/admissions).

### Music:

A live audition or 20-minute video demonstrating musicianship, musical development, overall ability and potential.

Applicants to the Post-Diploma B.Mus. (after a two-year diploma) must successfully audition into Studio V - Instrument (Music Studio 3548) to be eligible for admission. Applicants to the Post-Diploma B.Mus. (after a three-year diploma) must successfully audition into Studio VII - Instrument (Music Studio 4748) to be eligible for admission.

The audition application and additional information are available at [www.ulethbridge.ca/finearts/admissions](http://www.ulethbridge.ca/finearts/admissions). Also see **Bachelor of Music, Music Major (p. 168)**.

**i. Post-Diploma B.F.A. - Multidisciplinary Degree Program (After a Two- or Three-Year Diploma)**

Applicants are eligible for admission to the Post-Diploma B.F.A. - Multidisciplinary degree program by completing an approved two- or three-year college diploma in Art, Theatre or Dramatic Arts, or Music.

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to Post-Diploma degree programs in the Faculty of Fine Arts. The Faculty will consider diplomas not previously approved for admission on a case-by-case basis.

For Additional Admission Requirements, see [www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements](http://www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements).

**j. Bachelor of Arts, Bachelor of Fine Arts, or Bachelor of Music After an Approved Degree**

The B.A., B.F.A. - Art, B.F.A. - Dramatic Arts, B.F.A. - Indigenous Art, B.F.A. - Multidisciplinary, B.F.A. - New Media, and B.Mus. After an Approved Degree programs are available to applicants who have completed an approved undergraduate degree. This program is primarily of interest to degree holders wishing to pursue an entirely different field of study to enhance or change their career focus, and to international students seeking North American credentials see **Admission, Previous Degree (p. 26)**.

Students are not eligible to pursue a second Fine Arts degree which is similar to one already completed at a recognized institution. Generally, Fine Arts degrees with identical or closely related majors are considered to be similar. International applicants who possess a related degree will be considered for admission on a case-by-case basis and are not eligible for admission without the approval of the Faculty of Fine Arts. The decision of the Faculty will be final in these matters.

The B.F.A. - Art, B.F.A. - Dramatic Arts, B.F.A. - Indigenous Art, B.F.A. - New Media, and B.Mus. programs accept applications to the fall term only.

**Additional Admission Requirements**

Second degree applicants to the B.Mus. with a Music major must audition as indicated in **Music Major (p. 168)**.

**k. Bachelor of Arts and Science**

See **Faculty of Arts and Science, Bachelor of Arts and Science (BASc.) (p. 95)**

**l. Bachelor of Arts/Bachelor of Education**

See **Combined Degrees, Bachelor of Arts/Bachelor of Education or Bachelor of Science/Bachelor of Education (p. 245)**

**m. Bachelor of Fine Arts - Art/Bachelor of Education**

See **Combined Degrees, Bachelor of Fine Arts - Art/Bachelor of Education (p. 268)**

**n. Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education**

See **Combined Degrees, Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education (p. 271)**

**o. Bachelor of Fine Arts - New Media/Bachelor of Education**

See **Combined Degrees, Bachelor of Fine Arts - New Media/Bachelor of Education (p. 274)**

**p. Bachelor of Music/Bachelor of Education**

See **Combined Degrees, Bachelor of Music/Bachelor of Education (p. 277)**

**q. Bachelor of Arts/Bachelor of Management**

See **Combined Degrees, Bachelor of Arts/Bachelor of Management or Bachelor of Science/Bachelor of Management (p. 284)**

**r. Bachelor of Fine Arts - New Media/Bachelor of Management**

See **Combined Degrees, Bachelor of Fine Arts - New Media/Bachelor of Management (p. 308)**

**s. Bachelor of Fine Arts - New Media/Bachelor of Science (Computer Science)**

See **Combined Degrees, Bachelor of Fine Arts - New Media/Bachelor of Science (Computer Science) (p. 307)**

**t. Post-Diploma Combined Degrees Programs in Fine Arts and Education**

See **Combined Degrees, Post-Diploma Combined Degrees Programs in Fine Arts and Education (p. 314)**

**u. Returning after an Absence from the Faculty of Fine Arts**

1. Fine Arts students in good standing who are returning after an absence from the University are eligible to return to their previous (and most recent) program of study, regardless of current admission requirements.
2. Any student who takes University of Lethbridge courses in another Faculty or School or any transferable post-secondary courses during an absence must meet current admission requirements.

**v. Readmission after Required Withdrawal**

1. Readmission after Required Withdrawal from the Faculty of Fine Arts

Students who maintain continuing student status in another Faculty or School at the University of Lethbridge are eligible for readmission to the Faculty of Fine Arts once their cumulative GPA returns to 2.00 or above.

Students who do not maintain continuing student status at the University of Lethbridge after required withdrawal from the Faculty of Fine Arts are eligible for readmission under the conditions listed in 2. below, provided they are not subsequently admitted to another Faculty or School prior to applying for readmission to the Faculty of Fine Arts.

## 2. Readmission after Required Withdrawal from the University

Students dismissed for academic reasons will be granted readmission after the lapse of one year. An application for readmission must include evidence that the causes of previous unsatisfactory work have been identified and removed. Students required to withdraw twice are not usually eligible for readmission.

*Tabula Rasa* will be granted to all first-degree University of Lethbridge students upon readmission after required withdrawal for unsatisfactory academic performance. For details regarding the granting of *Tabula Rasa*, see **Admission, Readmission after Required Withdrawal (p. 28)**.

Students readmitted after required withdrawal are readmitted on condition of academic probation and limited to registration in a maximum of four courses (12.0 credit hours).

## 4. ACADEMIC STANDARDS

### a. Academic Standards for Bachelor of Arts

Students in Bachelor of Arts programs are governed by the academic indices established by the Faculty of Arts and Science (see **Faculty of Arts and Science, Academic Standards, p. 90**)

### b. Academic Standards for Bachelor of Fine Arts - Art, Bachelor of Fine Arts - Dramatic Arts, Bachelor of Fine Arts - Indigenous Art, Bachelor of Fine Arts - Multidisciplinary, Bachelor of Fine Arts - New Media, and Bachelor of Music

Students in Bachelor of Fine Arts - Art, Bachelor of Fine Arts - Dramatic Arts, Bachelor of Fine Arts - Indigenous Art, Bachelor of Fine Arts - Multidisciplinary, Bachelor of Fine Arts - New Media, and Bachelor of Music are governed by the following academic standards:

#### 1. Student in Good Standing

To be in good standing, a student must maintain a cumulative GPA of 2.00.

#### 2. Probationary Student

If the cumulative GPA falls below 2.00, the student is placed on academic probation and is subject to program restrictions.

In some cases, a student may be admitted as probationary because a previous academic record is either deficient in some respect, below the standard ordinarily required or difficult to assess.

#### 3. Required Withdrawal from Faculty of Fine Arts Program

Students may be required to withdraw from their Faculty of Fine Arts program on two academic grounds: (1) academic indices or (2) two consecutive terms on probation.

Students shall be required to withdraw for academic reasons from a Faculty of Fine Arts program only following the spring term.

Students who have completed fewer than six courses (18.0 credit hours) at the University of Lethbridge will not be required to withdraw from a Faculty of Fine Arts program.

##### a. Required Withdrawal - Academic Indices

Students whose cumulative GPA, at the end of the spring term, falls below the following indices are required to withdraw from their Faculty of Fine Arts program:

Number of completed courses (includes transfer courses)	GPA (U of L)
6 - 10	1.80
11 - 20	1.90
21 - 40	2.00

Students in the Post-Diploma B.F.A. and B.Mus. programs will be considered with students who have completed 21 to 40 courses.

##### b. Required Withdrawal - Terms on Probation

Students who, at the end of the spring term, have remained on academic probation for two or more consecutive terms, are required to withdraw from their Faculty of Fine Arts program.

Students required to withdraw from a Faculty of Fine Arts program may be eligible for admission to another Faculty or School at the University of Lethbridge under the conditions of Continuing Students Changing Programs (see **Admission, Continuing Students Changing Programs, p. 29**).

## 4. Required Withdrawal from the University of Lethbridge

Students may be required to withdraw from the University on two academic grounds: (1) academic indices or (2) two consecutive terms on probation.

Students shall be required to withdraw for academic reasons from the University of Lethbridge only following the spring term.

Students who have completed fewer than six courses (18.0 credit hours) at the University of Lethbridge will not be required to withdraw.

## a. Required Withdrawal - Academic Indices

Students whose cumulative GPA, at the end of the spring term, falls below the following indices are required to withdraw from the University:

Number of completed courses (includes transfer courses)	GPA (U of L)
6 - 10	1.50
11 - 20	1.70
21 - 30	1.85
31 - 40	2.00

Students in the Post-Diploma B.F.A. and B.Mus. programs will be considered with students who have completed 21 to 30, or 31 to 40 courses, as appropriate.

## b. Required Withdrawal - Terms on Probation

Students who, at the end of the spring term, have remained on academic probation for two or more consecutive terms and whose cumulative GPA is below the following indices are required to withdraw from the University:

Number of completed courses (includes transfer courses)	GPA (U of L)
6 - 10	1.70
11 - 20	1.85
21 - 40	2.00

Students in the Post-Diploma B.F.A. and B.Mus. programs will be considered with students who have completed 21 to 40 courses.

## 5. INSTITUTIONAL HONOURS

## a. Dean's Honour List

Students with outstanding academic performance are recognized on the Dean's Honour List. The list is compiled twice yearly at the end of each of the fall and spring terms.

To qualify, students must complete four or more graded courses and achieve a GPA of 3.75 or higher in their courses.

## b. Standards for Distinction and Great Distinction

Students who have displayed outstanding academic performance during their undergraduate degree programs are awarded their degrees 'With Distinction' or 'With Great Distinction'.

Students with an award GPA of 3.50 to 3.74 are awarded their degree 'With Distinction.' Students with an award GPA of 3.75 or higher are awarded their degree 'With Great Distinction'.

For purposes of awarding degrees 'With Distinction' or 'With Great Distinction,' the Faculty of Fine Arts uses the cumulative GPA as calculated on the University of Lethbridge academic transcript.

## 6. APPLIED STUDIES AND CO-OPERATIVE EDUCATION

Faculty of Fine Arts students may be eligible to enhance their programs through participation in Applied Studies courses and/or Co-operative Education.

See **Applied Studies and Co-operative Education (p. 339)** for more details. Further information may be obtained from the Career Bridge office (AH151; 403-329-2000; [career.bridge@uleth.ca](mailto:career.bridge@uleth.ca); [www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)).

## 7. INDEPENDENT STUDY

Independent Study may be taken for credit inside or outside of the student's Fine Arts discipline. A maximum of five Independent Study courses may count for degree credit. Post-Diploma and/or Combined Degrees students may count only three. Independent Study numbers 2990, 3990, and 4990 indicate the level of advancement. Independent Study may be elected as early as the second term or as late as the last, depending upon the capability of the student for undertaking academic work with a minimum of guidance.

Independent Study may take a variety of forms including theoretical studies, studio practice, or a combination of both.

Admission to Independent Study is achieved through consent of the instructor, who agrees to guide the Study, and by approval of the Department and the Dean. Enrolment may be for a regular term or during a summer session. Credit for Independent Study is at the discretion of the Department, upon recommendation of the Instructor. Grades are due at the end of the term of registration, as for regular courses.

Since Independent Study is intended to expand a student's program beyond the limits of the regular curriculum, it may not be used to duplicate course offerings.

## 8. TOPICS COURSES

Topics courses (numbered 1850, 2850, 3850, or 4850) may be offered in a discipline. The subject matter of Topics courses varies with each offering, with different offerings indicated by distinct titles. Students may take more than one offering of a Topics course for credit if the offerings are distinct (i.e. if each offering taken has a different title).

Topics courses are offered on an irregular basis and do not appear in the Course Catalogue of the Calendar; Topics courses are listed in the current term timetable. Contact hours for Topics courses may vary according to the nature of the course and will appear in the timetable entry.

Prerequisites/corequisites/recommended background for individual offerings will appear in the timetable and will normally specify one or more of the following: level-appropriate courses in the discipline/related disciplines, year of standing, appropriate majors, admission to a University of Lethbridge program, or some other special requirement (e.g. an interview).

## 9. DEGREE PROGRAMS

### a. B.A.

#### 1. General Requirements

- a. Completion of at least 40 courses (120.0 credit hours) with a GPA of at least 2.00.
- b. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- c. Not more than 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.
- d. Completion of at least 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE).
- e. Not more than five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.
- f. Not more than five Disciplinary Credit Applied Studies courses (15.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
- g. Not more than 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree.  
**Note:** Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).
- h. Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).
- i. Not more than six courses (18.0 credit hours) from disciplines offered outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree. Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.
- j. Residence requirement: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level.

(See **Academic Regulations, Exceeding Course Limits, p. 56**.)

#### 2. Major Requirements

For the Bachelor of Arts, a major program in Art, Dramatic Arts, or Music must be chosen and at least half of the courses required in the major must be completed at the University of Lethbridge.

##### a. Art

The major in Art is a broad, general program of study. Students complete required courses in both studio art, and art history and museum studies, as well as electives chosen from these areas. Studio instruction is available in Drawing, Painting, Print, Photography, Media Arts, Spatial Practice, Indigenous art, and a series of thematic course offerings in contemporary art. Art History and Museum Studies courses concentrate primarily on modern and contemporary art with an emphasis on Global, Canadian, and Indigenous art and culture. In addition, a lively Visiting Speakers in the Arts program offers extensive exposure to leading practitioners in the field.

##### **Thirteen required courses (39.0 credit hours):**

Art 2010 - Drawing Studio I

Art History 1001 - World Art Before 1400

Art History 1002 - World Art Since 1400

Art History 3001 - Theory and Methods in Art and Art History

##### **Two of:**

Art 2005 - Print Studio (Without a Press) OR Art 2006 - Print Studio (With a Press)

Art 2015 - Art Studio (Series)

Art 2023 - Painting Studio I

Art 2027 - Photography Studio I

Art 2033 - Spatial Practice I

Art 2060 - Media Arts (Digital Sketchbook) OR Art 2061 - Media Arts (Video Sketchbook)

Art 2350/Indigenous Studies 2350 - Indigenous Art Studio I

**One of:**

Art 3261 - Art NOW  
Art 3262 - Art NOW

**One of:**

Art History 3200 - Issues in 19th-Century Art and Culture  
Art History 3215 - 20th-Century Art History to 1945  
Art History 3240 - Canadian Art History to 1960  
Museum Studies 2900 - Introduction to Museum Studies

**One of:**

Art History 3151 - Art History (Series)  
Art History 3152 - Indigenous Art History (Series)  
Art History 3220 - Art from 1945 to 1980  
Art History 3245 - Canadian Art History from 1960 to the Present  
Art History 3270 - Global Art Since 1980  
Art History 3850 - Topics Course  
Art History 4150 - Art History (Series)  
Museum Studies 3850 - Topics in Museum Studies  
Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display  
Museum Studies 4000 - Museum Studies Internship

Four additional courses (12.0 credit hours) in Art, Art History, and/or Museum Studies including a minimum of one at the 3000/4000 level

**Notes**

A student may complete multiple offerings of Art 2015 and/or Art 3015 to meet degree requirements.

A student proceeding beyond these minimum requirements may choose to focus on Art Studio, Art History, or Museum Studies courses.

b. **Dramatic Arts**

The major in Dramatic Arts is a broad, general program of study. Students complete required courses in various aspects of the Dramatic Arts including theory and history as well as performance-based and technically-based courses. Beyond the required courses, students will choose electives based on their specific interests in the Dramatic Arts.

**Fifteen required courses (45.0 credit hours):**

Drama 1000 - Introduction to Dramatic Arts  
Drama 2010 - Performance Fundamentals  
Drama 2100 - Play Reading and Analysis  
Drama 2120 - History and Development of Theatre I  
Drama 2130 - History and Development of Theatre II  
Drama 2810 - Introduction to Stagecraft  
Drama 3100 - Theatre in Performance  
Drama 3130 - Canadian Theatre

**One of:**

Drama 2310 - Acting I  
Drama 2320 - Voice I  
Drama 2340 - Movement I  
Drama 2420 - Directing I  
Drama 2510 - Theatre for Young Audiences I  
Drama 2740 - Devised Theatre I  
Drama 2750 - Playwriting I  
Drama 2825 - Introduction to Design for Theatre

**One of:**

Drama 2600 - Drama Portfolio I  
Drama 3611 - Advanced Stagecraft I

**Two of:**

Cinema 3000 - Contemporary American Cinema  
Cinema 3001 - Film Authorship  
Cinema 3201 - Documentary Film Studies  
Cinema 3202 - Film Noir and Crime Cinema  
Cinema 3203 - Film Comedy  
Cinema 3550/New Media 3550 - History of Animation  
Drama 3150 - Theatre Studies (Series)  
Drama 3151 - Play Reading and Analysis II  
Drama 3160 - Dramaturgy  
English 3010 - Literary Theory  
New Media 3560 - Popular Narrative

**One of:**

English 3201 - Elizabethan and Jacobean Drama  
 English 3602 - Shakespeare  
 English 3620 - Modern Drama  
 English 3660 - Contemporary Drama

**One of:**

Drama 4150 - Theatre Studies (Series)  
 Drama 4211 - Theories of Theatre

One additional course (3.0 credit hours) in Drama at the 3000/4000 level

One additional course (3.0 credit hours) in Drama

**Notes**

It is recommended that students consider completing additional English courses from the Dramatic Literature Series.

**c. Music**

The major in Music is a broad, general program of study. Students complete a core of required courses and choose electives based on their areas of interest. Students may focus on scholarly and written work without requiring a high level of musical performance skills, although a degree of facility on an instrument is recommended. Students may also choose a performance focus supported by theory and history courses.

The program includes initial study in music history and theory courses and may include applied music instruction (Music Studio courses, Music Ensemble Activity courses and conducting). Entrance to Music Studio courses is dependent upon the results of an audition. Students will tailor their program depending on their interests in one or more areas such as history, theory, classical and/or contemporary music.

**Sixteen required courses (48.0 credit hours):**

Music 1160 - Foundations of Music Theory

Music 2080 - Western Art Music

Music 2090 - The Eighteenth Century

<sup>1</sup> Music 2161 - Musicianship Skills I

Music 2260 - Harmony in the Common Practice

<sup>1</sup> Music 2261 - Musicianship Skills II

Music 2500 - Introduction to Music Technology

**Three of:**

Music 3030 - Film Music

<sup>2</sup> Music 3200 - Popular Music (Series)

Music 3261 - Music in Recital

Music 3721 - World Music

Music 3734 - Portfolio and Music Industry

Music 3850 - Topics in Music

<sup>3</sup> Seven additional courses from the Department of Music (21.0 credit hours) including a minimum of five courses at the 3000/4000 level, excluding Music 1000 and Music 1011, and including no more than four Music Ensemble Activity courses.

**Notes**

<sup>1</sup> 1.5 credit hours.

<sup>2</sup> Only one offering of Music 3200 may count toward the "Three of" list. Additional offerings of Music 3200 may be taken as Music electives.

<sup>3</sup> Music Ensemble Activity courses cannot be used to meet the 3000/4000-level course requirement in the Music major.

Each Music Ensemble Activity course counts as one-half course (1.5 credit hours). Students with a major in Music may earn credit for a maximum of eight Music Ensemble Activity courses (12.0 credit hours).

**b. B.F.A. - Art**

The Department of Art offers the Bachelor of Fine Arts - Art with majors in Art Studio and Art History/Museum Studies. The programs are designed to integrate diverse areas of study within a liberal education model. Students thrive in an experiential learning and research environment that is committed to equity, diversity, inclusion, and academic excellence.

The Art Studio major emphasizes hands-on technical and creative innovation, interdisciplinarity, critical thought and community engagement, all intrinsic to contemporary art production. Supported by spacious and well-equipped facilities, core areas of study include Drawing, Painting, Print, Photography, Media Arts, Indigenous Art, and Spatial Practice, while a series of rotating courses offer advanced exploration of up-to-date issues in art. Senior students are allocated individual studio spaces where they have the freedom to experiment and develop their own artistic direction in an environment of expert technical support, creative guidance, and critical dialogue.

The Art History/Museum Studies major concentrates primarily on modern and contemporary art with an emphasis on Global, Canadian, and Indigenous art and culture. Through a combination of history, theory, and practical experience, students intern in regional public art galleries and museums to gain valuable, career-specific skills. In addition, a lively Visiting Speakers in the Arts program offers extensive exposure to leading practitioners in the field.



These programs prepare students to work as professional artists, art educators, for careers in museums and art galleries, the non-profit sector, or in private enterprise. Graduates of the program are well prepared to pursue further studies in art, art history, curatorial studies, media studies, architecture, design, art therapy, education, and related disciplines.

Students interested in pursuing a B.A. with an Art major should refer to the degree requirements listed under **B.A. (p. 173)** above.

#### I. Degree Requirements

- a. Successful completion of 40 courses (120.0 credit hours) with a cumulative GPA of at least 2.00 (on the University of Lethbridge's 4.0 scale).
- b. A minimum cumulative GPA of 2.50 (on the University of Lethbridge's 4.0 scale) in all Art, Art History, and Museum Studies courses.
- c. Completion of four courses from each of List II: Social Sciences and List III: Sciences to fulfill the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- d. At least 13 Art, Art History, and/or Museum Studies courses (39.0 credit hours) at the 3000/4000 level.
- e. A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- f. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- g. Residence requirement: 20 courses (60.0 credit hours), including a minimum of 12 offered by the Department of Art of which at least seven must be at the 3000/4000 level.
- h. Completion of a minimum of 29 (87.0 credit hours) Art, Art History, and Museum Studies courses for Art Studio majors and a minimum of 25 (75.0 credit hours) Art, Art History, and Museum Studies courses for Art History/Museum Studies majors to a maximum of 32 courses in Art, Art History, and Museum Studies (see **Academic Regulations, Exceeding Course Limits, p. 56**).

#### Required Art, Art History, and Museum Studies Courses

Art 2010 - Drawing Studio I  
 Art 3261 - Art NOW  
 Art 3262 - Art NOW  
 Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400  
 Art History 3001 - Theory and Methods in Art and Art History  
 Art History 3245 - Canadian Art History from 1960 to the Present  
 Art History 3270 - Global Art Since 1980

#### One of:

Art 2060 - Media Arts (Digital Sketchbook)  
 Art 2061 - Media Arts (Video Sketchbook)

Students must choose either the Art Studio major or the Art History/Museum Studies major listed below:

#### I. Art Studio Major:

Art 4048 - Senior Studio I (6.0 credit hours)  
 Art 4049 - Senior Studio II (6.0 credit hours)  
 Art 4994 - Professional Practice for Artists

#### Art Studio: List I

##### Four of:

Art 2005 - Print Studio (Without a Press) OR Art 2006 - Print Studio (With a Press)  
<sup>1</sup> Art 2015 - Art Studio (Series)  
 Art 2023 - Painting Studio I  
 Art 2027 - Photography Studio I  
 Art 2033 - Spatial Practice I  
 Art 2060 - Media Arts (Digital Sketchbook) OR Art 2061 - Media Arts (Video Sketchbook)  
 Art 2350/Indigenous Studies 2350 - Indigenous Art Studio I

#### Art Studio: List II

##### Five of:

Art 3007 - Print Studio III  
 Art 3010 - Drawing Studio II  
 Art 3011 - Drawing Studio III  
<sup>1</sup> Art 3015 - Art Studio (Series)  
 Art 3023 - Painting Studio II  
 Art 3024 - Painting Studio III  
 Art 3027 - Photography Studio II  
 Art 3028 - Photography Studio III  
 Art 3033 - Spatial Practice II

Art 3034 - Spatial Practice III  
 Art 3035 - Social Practice in Art  
 Art 3062 - Media Arts III  
 Art 3350/Indigenous Studies 3350 - Indigenous Art Studio II  
 Art 3355/Indigenous Studies 3355 - Landmarks

### Art History: List A

#### One of:

Art History 3200 - Issues in 19th-Century Art and Culture  
 Art History 3215 - 20th-Century Art History to 1945  
 Art History 3220 - Art from 1945 to 1980  
 Art History 3240 - Canadian Art History to 1960  
 Museum Studies 2900 - Introduction to Museum Studies

### Art History: List B

#### One of:

Art History 3151 - Art History (Series)  
 Art History 3152 - Indigenous Art History (Series)  
 Art History 3850 - Topics in Art History  
 Art History 4150 - Art History (Series)  
 Museum Studies 3850 - Topics in Museum Studies  
 Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display  
 Museum Studies 4000 - Museum Studies Internship

### Art Electives:

Four Elective Art, Art History, or Museum Studies courses (12.0 credit hours)  
 Three Elective Art or non-Art courses (9.0 credit hours)

<sup>1</sup> A student may complete multiple offerings of Art 2015 and/or Art 3015 to meet degree requirements.

#### 2. Art History/Museum Studies Major:

Art History 3200 - Issues in 19th-Century Art and Culture  
 Art History 3215 - 20th-Century Art History to 1945  
 Art History 3220 - Art from 1945 to 1980  
 Art History 3240 - Canadian Art History to 1960  
 Art History 4150 - Art History (Series)  
 Museum Studies 2900 - Introduction to Museum Studies  
 Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display  
 Museum Studies 4000 - Museum Studies Internship

#### One of:

Art History 3151 - Art History (Series)  
 Art History 3152 - Indigenous Art History (Series)

### Required Cognates:

Indigenous Studies 2300 - North American Indigenous Art History and Theory  
 An Indigenous Studies elective

### Art Electives

Seven Elective Art, Art History, or Museum Studies courses (21.0 credit hours) including a minimum of two (6.0 credit hours) at the 3000/4000 level

Five Elective Art or non-Art courses (15.0 credit hours)

**Note:** Good writing is central to Art History and Museum Studies, so Writing 1000 is highly recommended as an elective taken early in the degree.

#### 3. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

#### 2. Honours Thesis' Designation

Qualified students in the Bachelor of Fine Arts - Art program may elect to complete an Undergraduate Thesis course (6.0 credit hours). Students who complete all requirements and satisfy the academic standards required for the Undergraduate Thesis course are eligible to receive the 'Honours Thesis', designation on their official academic transcript and degree parchment.

The B.F.A. - Art Undergraduate Thesis courses are Art 4995 for Art Studio majors, and Art History 4995 or Museum Studies 4995 for Art History/Museum Studies majors. See **Course Catalogue (p. 343)** for details.

##### a. Prerequisites

Prospective 'Honours Thesis' candidates in the B.F.A. - Art must meet the prerequisites as indicated for Art 4995 for Art Studio majors and Art History 4995 or Museum Studies 4995 for Art History/Museum Studies majors. See **Course Catalogue (p. 343)** for details.

## b. Supervisory Committee

For each prospective 'Honours Thesis' candidate, a Supervisory Committee will be established. The Supervisory Committee, approved by the Art Department will consist of the Thesis Supervisor from the Art Department and a minimum of one other member, who may be from outside the Art Department.

## c. Initial Approval

1. The prospective student must present a *Thesis Proposal* to be approved by the Supervisory Committee prior to registration for the course.
2. The Supervisory Committee will establish at the outset the weighting of the studio (if applicable), written and oral components of the thesis, as well as the procedure for determining the final grade.
3. Subsequent changes to the approved *Thesis Proposal* must be approved by the Supervisory Committee.
4. The prospective student must submit an unofficial academic transcript for review by the Supervisory Committee.
5. Admission to the course is achieved through approval of the Supervisory Committee and the Art Department, endorsed by the Dean whose signature indicates that the necessary resources are available for the project.
6. The student must register for the Undergraduate Thesis course by the last day for course Add/Drop for the given fall/spring term or summer session.

## d. Final Assessment

The final assessment for the Undergraduate Thesis is based on two criteria:

## 1. Studio and/or Written Component

The Undergraduate Thesis must be a sustained piece of supervised research demonstrating a superior level of artistic and/or academic ability on a matter approved by the Supervisory Committee prior to registration in the course.

The Thesis should be of high quality and made publicly available by the Art Department.

## 2. Oral Component

The student will be required to make a formal oral presentation demonstrating the ability to articulate clearly the nature of the project undertaken, the research methodology, and the results of the project. This component is a demonstration of the student's competence in oral communication and not necessarily an oral defence of the Thesis, unless so specified by the Art Department.

## 3. Eligibility for 'Honours Thesis' Designation

Students are eligible to receive the 'Honours Thesis' designation on their official academic transcript and degree parchment only if they achieve a minimum grade of 'B+' (3.30 or higher) for the Undergraduate Thesis course, and have satisfactorily completed the required oral component. Students who achieve grades between 'D' and 'B', inclusively, and/or do not complete the oral component will retain credit for the equivalent of two courses (6.0 credit hours) but will not be eligible for the 'Honours Thesis' designation.

Inquiries about the 'Honours Thesis' option should be directed to the Art Department. Please refer to **Academic Regulations, Honours Thesis Designation (p. 57)** for more information on the 'Honours Thesis' designation.

**Note:** The 'Honours Thesis' designation is not available for Combined Degree programs, Post-Diploma programs or the B.F.A. - Art as a Second Degree.

## c. B.F.A. - Dramatic Arts

The Department of Drama offers courses in various aspects of the discipline. Within the context of a liberal education, the Department provides opportunities for suitably qualified students to pursue a specialized or general degree in Dramatic Arts.

Students interested in pursuing a B.A. with a Dramatic Arts major should refer to the degree requirements listed under **B.A. (p. 173)**.

## 1. Degree Requirements

- a. Successful completion of 40 courses with a cumulative GPA of at least 2.00 (on the University of Lethbridge's 4.0 scale).
- b. A minimum cumulative GPA of 2.50 (on the University of Lethbridge's 4.0 scale) in all Drama courses.
- c. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- d. At least 13 Drama courses at the 3000/4000 level.
- e. A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- f. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- g. Residence requirement: 20 courses, including 12 in Drama of which at least seven must be at the 3000/4000 level.
- h. Completion of a minimum of 27 Drama courses for Performance majors and a minimum of 24 Drama courses for Technical/Design majors (see **Academic Regulations, Exceeding Course Limits, p. 56**).

**Required Drama Courses**

Drama 1000 - Introduction to Dramatic Arts  
 Drama 2010 - Performance Fundamentals  
 Drama 2100 - Play Reading and Analysis  
 Drama 2120 - History and Development of Theatre I  
 Drama 2130 - History and Development of Theatre II  
 Drama 2810 - Introduction to Stagecraft  
 Drama 3100 - Theatre in Performance  
 Drama 3130 - Canadian Theatre  
 Drama 3611 - Advanced Stagecraft I

**Two of:**

Cinema 3000 - Contemporary American Cinema  
 Cinema 3001 - Film Authorship  
 Cinema 3201 - Documentary Film Studies  
 Cinema 3202 - Film Noir and Crime Cinema  
 Cinema 3203 - Film Comedy  
 Cinema 3550/New Media 3550 - History of Animation  
 Drama 3150 - Theatre Studies (Series)  
 Drama 3151 - Play Reading and Analysis II  
 Drama 3160 - Dramaturgy  
 Drama 4150 - Theatre Studies (Series)  
 Drama 4211 - Theories of Theatre  
 English 3010 - Literary Theory  
 New Media 3560 - Popular Narrative

**One of:**

English 3201 - Elizabethan and Jacobean Drama  
 English 3602 - Shakespeare  
 English 3620 - Modern Drama  
 English 3660 - Contemporary Drama

Students initially choose one of two majors: Performance or Technical/Design. Students who intend to pursue the Performance major must successfully audition in their second year to continue in or transfer to the Performance major. Students who are unsuccessful or choose not to audition may pursue a Technical/Design major.

**I. Performance Major:**

Drama 2310 - Acting I  
 Drama 2420 - Directing I  
 Drama 2510 - Theatre for Young Audiences I  
 Drama 2740 - Devised Theatre I  
 Drama 3600 - Drama Portfolio II  
 Drama 4100 - Theatre in Professional Contexts  
 Drama 4600 - Drama Portfolio III

**Completion of eleven courses in Drama, including all courses from two of the following three streams:**

**Acting**

Drama 2320 - Voice I  
 Drama 2340 - Movement I  
 Drama 3310 - Acting II  
 Drama 3320 - Voice II  
 Drama 3342 - Movement II  
 Drama 4310 - Acting III

**Theatre Creation**

Drama 2750 - Playwriting I  
 Drama 3740 - Devised Theatre II  
 Drama 3750 - Playwriting II  
 Drama 3770 - Improvisation  
 Drama 4740 - Devised Theatre III

**Directing**

Drama 2825 - Introduction to Design for Theatre  
 Drama 3420 - Directing II  
 Drama 3765 - New Play Workshop  
 Drama 4211 - Theories of Theatre  
 Drama 4420 - Directing III

Three electives (9.0 credit hours) from any Faculty or School

## 2. Technical/Design Major:

Drama 2825 - Introduction to Design for Theatre  
 Drama 2827 - Visualization I  
 Drama 3827 - Visualization II  
 Drama 3870 - Technical and Design History A  
 Drama 3871 - Technical and Design History B  
 Drama 4000 - Creative Collaboration  
 Drama 4611 - Advanced Stagecraft II

**Two of:**

Drama 2310 - Acting I  
 Drama 2320 - Voice I  
 Drama 2340 - Movement I  
 Drama 2420 - Directing I  
 Drama 2510 - Theatre for Young Audiences I  
 Drama 2740 - Devised Theatre I  
 Drama 2750 - Playwriting I

**Two of:**

Drama 3832 - Technical Theatre Construction: Scenic  
 Drama 3833 - Technical Theatre Construction: Lighting  
 Drama 3834 - Technical Theatre Construction: Costume

**Two of:**

Drama 3846 - Design for Theatre: Scenic  
 Drama 3847 - Design for Theatre: Lighting  
 Drama 3848 - Design for Theatre: Costume

Two Drama elective (6.0 credit hours) at the 3000/4000 level

Six electives (18.0 credit hours) from any Faculty or School

## 3. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**d. B.F.A. - Indigenous Art**

The Bachelor of Fine Arts - Indigenous Art is offered by the Faculty of Fine Arts. Required courses in the program are offered by the Department of Art and the Department of Indigenous Studies. Students choose a major in Art Studio or Art History/Museum Studies, each with an Indigenous Art emphasis. The program is designed to integrate diverse areas of study within a liberal education model. Students thrive in an experiential learning and research environment that is committed to equity, diversity, inclusion, and academic excellence.

The Art Studio major emphasizes hands-on technical and creative innovation, interdisciplinarity, critical thought and community engagement, all intrinsic to contemporary art production. Supported by spacious and well-equipped facilities, core areas of study include Drawing, Painting, Print, Photography, Media Arts, Indigenous Art, and Spatial Practice, while a series of rotating courses offers advanced exploration of up-to-date issues in art. Senior students are allocated individual studio spaces where they have the freedom to experiment and develop their own artistic direction in an environment of expert technical support, creative guidance, and critical dialogue.

The Art History/Museum Studies major concentrates primarily on modern and contemporary art with an emphasis on Global, Canadian, and Indigenous art and culture. Through a combination of history, theory, and practical experience, students intern in regional public art galleries and museums to gain valuable, career-specific skills. In addition, a lively Visiting Speakers in the Arts Program offers extensive exposure to leading practitioners in the field.

These programs prepare students to work as professional artists, art educators, for careers in museums and art galleries the non-profit sector, or in private enterprise. Graduates of the program are also well prepared to pursue further studies in art, art history, Indigenous studies, curatorial studies, media studies, architecture, design, art therapy, education or related disciplines.

Students interested in pursuing a B.A. with an Art major or Indigenous Studies major should refer to the degree requirements listed under **B.A. Art (p. 173)** or **Faculty of Arts and Science, Indigenous Studies (B.A.) (p. 121)**.

**I. Degree Requirements**

- Successful completion of 40 courses (120.0 credit hours) with a cumulative GPA of at least 2.00 (on the University of Lethbridge's 4.0 scale).
- A minimum cumulative GPA of 2.50 in all Art, Art History, and Museum Studies courses.
- Completion of four courses from each of List II: Social Sciences and List III: Sciences to fulfill the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- At least 13 Art, Art History, and Museum Studies courses (39.0 credit hours) at the 3000/4000 level, and at least two Indigenous Studies courses at the 3000/4000 level.
- A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).

- f. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- g. Residence requirement: 20 courses (60.0 credit hours), including a minimum of 12 offered by the Department of Art of which at least seven must be at the 3000/4000 level and at least four courses offered by the Department of Indigenous Studies.
- h. Completion of a minimum of 30 (90.0 credit hours) required courses for Art Studio majors, and a minimum of 18 (54.0 credit hours) required courses for Art History/Museum Studies majors (see **Academic Regulations, Exceeding Course Limits, p. 56**).

**Required Art, Art History, Museum Studies and Indigenous Studies Courses:**

Art 2010 - Drawing Studio I

Art 2350/Indigenous Studies 2350 - Indigenous Art Studio I

**One of:**

Art 2060 - Media Arts (Digital Sketchbook)

Art 2061 - Media Arts (Video Sketchbook)

**One of:**

Art 3261 - Art NOW

Art 3262 - Art NOW

Art History 1001 - World Art Before 1400

Art History 1002 - World Art Since 1400

Art History 3001 - Theory and Methods in Art and Art History

Art History 3240 - Canadian Art History to 1960

Art History 3152 - Indigenous Art History (Series)

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

Indigenous Studies 2000 - Native American Philosophy

Indigenous Studies 2300 - North American Indigenous Art History and Theory

Indigenous Studies 2500 - Indigenous Histories of Canada

Indigenous Studies 3300 - Canadian Indigenous Art History and Theory

Students must choose either the Art Studio major or the Art History/Museum Studies major listed below:

**I. Art Studio Major:**

Art 3350/Indigenous Studies 3350 - Indigenous Art Studio II

Art 3355/Indigenous Studies 3355 - Landmarks

Art 4048 - Senior Studio I (6.0 credit hours)

Art 4049 - Senior Studio II (6.0 credit hours)

Art 4994 - Professional Practice for Artists

**Art Studio: List I**

**Two of:**

Art 2005 - Print Studio (Without a Press) OR Art 2006 - Print Studio (With a Press)

<sup>1</sup> Art 2015 - Art Studio (Series)

Art 2023 - Painting Studio I

Art 2027 - Photography Studio I

Art 2033 - Spatial Practice I

Art 2060 - Media Arts (Digital Sketchbook) OR Art 2061 - Media Arts (Video Sketchbook)

**Art Studio: List II**

**Four of:**

Art 3007 - Print Studio III

Art 3010 - Drawing Studio II

Art 3011 - Drawing Studio III

<sup>1</sup> Art 3015 - Art Studio (Series)

Art 3023 - Painting Studio II

Art 3024 - Painting Studio III

Art 3027 - Photography Studio II

Art 3028 - Photography Studio III

Art 3033 - Spatial Practice II

Art 3034 - Spatial Practice III

Art 3035 - Social Practice in Art

Art 3062 - Media Arts III

**Art History:**

**One of:**

Art History 3245 - Canadian Art History from 1960 to the Present

Art History 3270 - Global Art Since 1980

Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display

**Art Elective:**

One elective Art, Art History, or Museum Studies courses (3.0 credit hours)

**Indigenous Studies Elective:**

One elective Indigenous Studies course (3.0 credit hours)

**Electives:**

Two electives (6.0 credit hours) chosen from any Faculty or School

<sup>1</sup> A student may complete multiple offerings of Art 2015 and/or Art 3015 to meet degree requirements.

2. Art History/Museum Studies Major:

Art History 3215 - 20th-Century Art History to 1945

Art History 3220 - Art from 1945 to 1980

Art History 3245 - Canadian Art History from 1960 to the Present

Art History 3270 - Global Art Since 1980

Art History 4150 - Art History (Series)

Museum Studies 2900 - Introduction to Museum Studies

Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display

Museum Studies 4000 - Museum Studies Internship

**Art Electives:**

Three elective Art, Art History, or Museum Studies courses (9.0 credit hours) at the 3000/4000 level

**Indigenous Studies Electives:**

Three Indigenous Studies courses including at least one at the 3000/4000 level

**Electives:**

Four electives (12.0 credit hours) chosen from any Faculty or School

2. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

e. **B.F.A. - Multidisciplinary**

The B.F.A. - Multidisciplinary degree is based upon a program of courses offered in the Departments of Art, Drama, Music, and New Media requiring students to do a major concentration in one area, as well as a selection of courses in a minimum of two of the other three areas.

This program emphasizes essential knowledge and skills in Art, Drama, Music, and New Media together with areas of studies offered in other Faculties/Schools. It provides excellent preparation for students wishing to pursue professions in fields related to Fine Arts such as dramatic arts therapy, arts administration, performance studies, journalism, musical theatre, recreation, applied theatre arts and technology, arts criticism, design, etc.

This program allows students to choose groups and combinations of courses from within or outside the Faculty of Fine Arts to support and complement the direction or focus they choose. Students accepted into this program must contact the Faculty of Fine Arts Advisor for guidance and information about various options available and the particular routes they decide to follow.

Program Planning Guides for sample programs are available from the Fine Arts Advising Office in W660.

I. Degree Requirements

- a. Successful completion of 40 courses with a cumulative GPA of at least 2.00 (on the University of Lethbridge's 4.0 scale).
- b. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- c. A minimum of 10 courses (30.0 credit hours) at the 3000/4000 level in the Faculty of Fine Arts and/or other Faculties or Schools.
- d. Residence requirement: 20 courses, including a minimum of 12 in the Faculty of Fine Arts and the last 10 taken for credit toward the degree.
- e. Courses in Art, Art History, Cinema, Drama, Museum Studies, Music, Music Studio, and New Media as follows:
  - I. Minimum of 13 courses in a major area.
    - a. Art - If the major area is Art, required courses include: two of Art 2005, Art 2006, Art 2010, Art 2015, Art 2023, Art 2027, Art 2033, Art 2060, Art 2061, Art 2350/Indigenous Studies 2350; and one of Art History 1001 or Art History 1002.
    - b. Drama - If the major area is Drama, required courses include: Drama 1000, Drama 2100, Drama 2120 and Drama 2130.
    - c. Music - If the major area is Music, required courses include: Music 1160, Music 2080, Music 2161, Music 2260, and Music 2261.
    - d. New Media - If the major area is New Media, required courses include: New Media 1000, New Media 2005, and New Media 2150.

2. Minimum of six courses in a second area. For example, if Music is the major area, the second area must be Art, Drama, or New Media.
3. Minimum of three courses in a third area. For example, if the first area is Art and the second area is Drama, the third area must be Music or New Media.

**Note:** In the second and third areas, students may take any combination of courses, including Music Ensemble Activities, providing prerequisites are met.

- f. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).

#### f. B.F.A. - New Media

The rapid advancement and integration of digital and interactive technologies within our culture has radically changed the way we communicate and interact with each other. The B.F.A. - New Media degree was created to meet the present and future need for content creators capable of applying both linear and non-linear strategies to problem-solving situations. By combining traditional art, music, drama practices, theory, and criticism with digital and interactive media, the Department of New Media provides students with the skills, knowledge and experience essential for personal and professional excellence and growth in the field of New Media communication.

The combination of professional-level technology and in-depth, multidisciplinary artistic investigation makes this New Media program unique. As the industry shifts its focus from a primarily technical workforce to a more intellectually developed, technically diverse talent pool, graduates of the B.F.A. - New Media program will be ready to take on complex professional duties requiring high levels of maturity, intellect, and technical proficiency.

##### 1. Degree Requirements

- a. Completion of 40 courses (120.0 credit hours) with a cumulative GPA of at least 2.00 (on the University of Lethbridge's 4.0 scale).
- b. A minimum cumulative GPA of 2.50 (on the University of Lethbridge's 4.0 scale) in all courses from the Department of New Media.
- c. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- d. A minimum of 13 courses (39.0 credit hours) at the 3000/4000 level in Fine Arts (New Media, Cinema, Art, Art History, Drama, Fine Arts, Museum Studies, or Music).
- e. A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- f. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- g. Residence requirement: 20 courses, including a minimum of 12 from the Department of New Media of which at least seven must be at the 3000/4000 level.
- h. Completion of the following courses:

Art 2033 - Spatial Practice I  
 New Media 1000 - Introduction to New Media  
 New Media 2005 - Design Fundamentals for New Media  
 New Media 2010 - Visual Communications for New Media  
 New Media 2030 - Digital Video Production  
 New Media 2150 - Memes, Influencers, and Digital Convergence  
 New Media 3030 - 3-D Computer Modelling and Animation  
 New Media 3150 - Seminar in New Media Studies  
 New Media 3380 - Programming for Artists  
 New Media 3420 - Narrative for New Media  
 New Media 3520 - Web Design and Development  
 New Media 3680 - Interaction Design  
 New Media 3900 - Portfolio and Professional Practice

##### One of:

New Media 3040 - Colour Theory and Digital Photo Manipulation  
<sup>1</sup> New Media 3110/Cinema 3110 - Postproduction and Visual Effects  
 New Media 3310 - Game Design: Theory and Practice  
 New Media 3640 - Character Animation I  
 New Media 3700 - Event and Exhibition Design  
 New Media 3720 - The Dynamic Web  
 New Media 3810 - Expanded Cinema  
 New Media 3820 - Information Design  
 New Media 4420/Cinema 4420 - Screenwriting  
 New Media 4520 - Advanced Web Design  
 New Media 4820/Cinema 4820 - Writing for Comedy  
 New Media 4830 - Theory and Practice of Motion Capture



**One of:**

New Media 3250 - Media, Advertising, and Consumer Culture  
 New Media 3300 - Theory and Aesthetics of Digital Games  
 New Media 3550/Cinema 3550 - History of Animation  
 New Media 3560 - Popular Narrative  
 New Media 3650 - Modern Media, War and Propaganda

**One of:**

Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400

One New Media elective (3.0 credit hours) at the 3000/4000 level

**Either:**

New Media 4651 - Internship (12.0 credit hours)  
 New Media 4661 - Internship Project (3.0 credit hours)

**OR****One of:**

New Media 4690 - Advanced Studio (6.0 credit hours)  
 New Media 4995 - Undergraduate Thesis (6.0 credit hours)

Three New Media electives (9.0 credit hours) at the 3000/4000 level

Five additional courses from the Faculty of Fine Arts including at least two courses at the 3000/4000 level.

Five electives (15.0 credit hours) from any Faculty or School.

**Notes**

<sup>1</sup> Prerequisite required: Cinema 1000

**Note:** New Media 1010 and New Media 2000 may not be counted toward the requirements for a major in New Media but may be counted as electives.

## i. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

## 2. Honours Thesis' Designation

Qualified students in the Bachelor of Fine Arts - New Media program may elect to complete an Undergraduate Thesis course (6.0 credit hours). Students who complete all requirements and satisfy the academic standards required for the Undergraduate Thesis course are eligible to receive the 'Honours Thesis' designation on their official academic transcript and degree parchment.

The B.F.A. - New Media Undergraduate Thesis course is New Media 4995. (See **Course Catalogue**, p. 343 for details.)

## a. Prerequisites

Prospective 'Honours Thesis' candidates in the B.F.A. - New Media must meet the prerequisites as indicated for New Media 4995. (See **Course Catalogue**, p. 343 for details.)

## b. Supervisory Committee

For each prospective 'Honours Thesis' candidate, a Supervisory Committee will be established. The Supervisory Committee, approved by the New Media Department will consist of the Thesis Supervisor from the New Media Department and a minimum of one other reader, who may be from outside the New Media Department.

## c. Initial Approval

1. The prospective student must present a *Thesis Proposal* to be approved by the Supervisory Committee prior to registration for the course.
2. The Supervisory Committee will establish at the outset the weighting of the studio (if applicable), written and oral components of the Thesis, as well as the procedure for determining the final grade.
3. Subsequent changes to the approved *Thesis Proposal* must be approved by the Supervisory Committee.
4. The prospective student must submit an unofficial academic transcript for review by the Supervisory Committee.
5. Admission to the course is achieved through approval of the Supervisory Committee and the New Media Department, endorsed by the Dean whose signature indicates that the necessary resources are available for the project.
6. The student must register for the Undergraduate Thesis course by the last day for course Add/Drop for the given fall/spring term or summer session.

## d. Final Assessment

The final assessment for the Undergraduate Thesis is based on two criteria:

## 1. Studio and/or Written Component

The Undergraduate Thesis must be a sustained piece of supervised research demonstrating a superior level of artistic and/or academic ability on a matter approved by the Supervisory Committee prior to registration in the course.

The Thesis should be of high quality and made publicly available by the New Media Department.

## 2. Oral Component

The student will be required to make a formal oral presentation demonstrating the ability to articulate clearly the nature of the project undertaken, the research methodology and the results of the project. This component is a demonstration of the student's competence in oral communication and not necessarily an oral defence of the Thesis, unless so specified by the New Media Department.

## e. Eligibility for 'Honours Thesis' Designation

Students are eligible to receive the 'Honours Thesis' designation on their official academic transcript and degree parchment only if they achieve a minimum grade of 'B+' (3.30 or higher) for the Undergraduate Thesis course, and have satisfactorily completed the required oral component. Students who achieve grades between 'D' and 'B', inclusive, and/or do not complete the oral component will retain credit for the equivalent of two courses (6.0 credit hours) but will not be eligible for the 'Honours Thesis' designation.

Inquiries about the 'Honours Thesis' option should be directed to the New Media Department. Please refer to **Academic Regulations, Honours Thesis Designation (p. 57)** for more information on the 'Honours Thesis' designation.

g. **B.Mus.**

The Department of Music offers courses within four basic subject areas: History and Literature; Theory and Composition; Applied Music Studies (Studio courses, Ensemble Activity courses, Conducting); and Digital Audio Arts. All Music courses are available to any student provided that he/she can comply with the prerequisites listed in the **Course Catalogue (p. 343)** of this Calendar. Entrance to the studio sequence is dependent upon the results of audition and is subject to the availability of instructors.

The B.Mus. with a major in Music is a general Music degree that provides students with a balanced curriculum of scholarly, theoretical and applied performance studies. The B.Mus. with a major in Digital Audio Arts integrates technology courses with the core curriculum of the general Bachelor of Music degree, but students may also draw from curricula in other disciplines. Students in both majors are encouraged to pursue their individual interests through electives and the Liberal Education List Requirement of the program.

Students intending to pursue a B.Mus. should note that courses in the subject area of theory and studio can be sequential in nature. Additionally, many theory and history courses core to the B.Mus. are currently offered only once per calendar year. Prospective B.Mus. candidates are advised to begin their theory studies in their first fall term at the University in order to permit the completion of the degree within a four-year period. Students will begin theory studies in either Music 1160 or Music 2260 depending on the results of an initial theory assessment. B.Mus. students with a major in Music should begin the studio sequence (Music Studio 2148) in their first term at the University.

Students interested in pursuing a B.A. with a Music major should refer to the degree requirements listed under **B.A. Music (p. 175)**.

## 1. Degree Requirements

- a. Successful completion of 40 courses (120.0 credit hours) with a cumulative GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
- b. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) in all Music and Music Studio courses.
- c. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- d. A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- e. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses, including ensembles, and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- f. Residence requirement: 20 courses, including a minimum of 12 in Music and/or Music Studio of which at least seven must be at the 3000/4000 level.
- g. Completion of a minimum of 30 Music, Music Studio and/or Music Ensemble Activity courses (90.0 credit hours).

**Required Music Courses****History**

Music 2080 - Western Art Music

Music 2090 - The Eighteenth Century

**Theory****Four of:**

- Music 1160 - Foundations of Music Theory
- Music 2260 - Harmony in the Common Practice
- Music 3360 - Chromatic Harmony
- Music 3460 - Harmony and Form in Jazz and Popular Music
- Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music
- Music 4660 - Form and Analysis

**Musicianship Skills**

- <sup>1</sup> Music 2161 - Musicianship Skills I
- <sup>1</sup> Music 2261 - Musicianship Skills II
- <sup>1</sup> Music 3361 - Musicianship Skills III
- <sup>1</sup> Music 3461 - Musicianship Skills IV

**Students must choose either the Music major or the Digital Audio Arts major listed below:**

**I. Music Major:****Applied**

- Music Studio 2148 - Studio I - Instrument
- Music Studio 2248 - Studio II - Instrument
- Music Studio 3348 - Studio III - Instrument
- Music Studio 3448 - Studio IV - Instrument
- Music Studio 3548 - Studio V - Instrument
- Music Studio 3648 - Studio VI - Instrument
- Music Studio 4748 - Studio VII - Instrument
- Music Studio 4848 - Studio VIII - Instrument

**History**

- Music 3090 - The Medieval Era to the Early Baroque
- Music 3480 - The Nineteenth Century
- Music 3580 - The Twentieth and Twenty-first Centuries

**Music Electives**

- Music 3000 - Seminar in Music (Series)

**Seven of (21.0 credit hours):**

- <sup>2</sup> Music 3000 - Seminar in Music (Series)
- Music 3080 - Popular Music History (Series)
- Music 3149 - Composition I
- Music 3249 - Composition II
- Music 3500 - Conducting I
- Music 3511 - Counterpoint
- Music 3560 - Musicians' Health and Health Research
- Music 3600 - Conducting II
- Music 3606 - Orchestration
- Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music (if not chosen to meet the Theory Requirement)
- Music 3721 - World Music
- Music 3730 - Tonmeister: Classical Music Recording
- Music 3734 - Portfolio and Music Industry
- Music 3738 - Music Education Technologies
- Music 3871 - Opera Workshop I
- Music 4080 - Music After 1945
- Music 4636 - Music Design for Film and Digital Media
- Music 4660 - Form and Analysis (if not chosen to meet the Theory requirement)
- Music 4721 - Canadian Music
- Music 4871 - Opera Workshop II
- Up to two Music Ensemble Activity courses (1.5 credit hours each)
- One 3000/4000-level Music Independent Study approved by the Department of Music

**Music Ensemble Activities**

- Six Music Ensemble Activity courses (1.5 credit hours each)

**Electives**

- Two courses from any Faculty or School

**Note:** Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

Major Focus	Music Ensemble Activity
Studio wind & percussion	Wind Orchestra
Studio voice	University Singers or Women's Chorus
Studio pianist & guitarist	Music Ensemble Activity 2450, Music Ensemble Activity 2451, Music Ensemble Activity 3450, Music Ensemble Activity 3451, and a minimum of two terms (1.5 credit hours each) of: Contemporary and Electroacoustics Ensemble Jazz Ensemble Percussion Ensemble University Singers Wind Orchestra Women's Chorus
Studio string	Orchestra (or through other approved ensemble or Independent Study by permission of the Department of Music)
Studio composition	Any of: Collaborative Piano/Guitar Contemporary and Electroacoustics Ensemble Jazz Ensemble Percussion Ensemble University Singers Wind Orchestra Women's Chorus (or through Independent Study by permission of the Department of Music)

## 2. Digital Audio Arts Major:

### Applied

Music 2181 - Acoustics

Music 2510 - Introduction to Digital Audio

Music 2550 - Modern Studio Recording Techniques

Music 3570 - Nonlinear Music and Audio for Games

Music 3605 - Introduction to Audio Software Programming

Music 3670 - Audio Synthesis

Music 3734 - Portfolio and Music Industry

Music 3735 - Electronics for Music Applications

Music 4749 - Applied Research in Digital Audio Arts I

Music 4849 - Applied Research in Digital Audio Arts II

### History

Music 3580 - The Twentieth and Twenty-first Centuries

Music 4080 - Music After 1945

### One of (3.0 credit hours):

Music 3090 - The Medieval Era to the Early Baroque

Music 3480 - The Nineteenth Century

### Music Ensemble Activities

Two Music Ensemble Activity courses (1.5 credit hours each)

### Digital Audio Arts Electives

Eight courses (24.0 credit hours) chosen from the following:

Music 2149 - Second-Study Studio I (1.5 credit hours)

Music 2249 - Second-Study Studio II (1.5 credit hours)

<sup>2</sup> Music 3000 - Seminar in Music (Series)

Music 3080 - Popular Music History (Series)

Music 3090 - The Medieval Era to the Early Baroque (if not chosen to meet the History requirement)

Music 3149 - Composition I

Music 3249 - Composition II

Music 3480 - The Nineteenth Century (if not chosen to meet the History requirement)

Music 3511 - Counterpoint

Music 3560 - Musicians' Health and Health Research  
 Music 3612 - Interactive Music Performance and Production  
 Music 3630 - Traditional Studio Recording Techniques  
 Music 3650 - Location Recording and Production  
 Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music (if not chosen to meet the Theory requirement)  
 Music 3721 - World Music  
 Music 3730 - Tonmeister: Classical Music Recording  
 Music 3738 - Music Education Technologies  
 Music 3850 - Topics in Music (with approval of the Music Department)  
 Music 4632 - Programming for Music Applications  
 Music 4633 - Music Software Design  
 Music 4636 - Music Design for Film and Digital Media  
 Music 4637 - Immersive Audio  
 Music 4660 - Form and Analysis (if not chosen to meet the Theory requirement)  
 Music 4850 - Topics in Music (with approval of the Music Department)  
 Music Ensemble Activity 3352 - Contemporary and Electroacoustics Ensemble I (1.5 credit hours)  
 Music Ensemble Activity 3452 - Contemporary and Electroacoustics Ensemble II (1.5 credit hours)  
 Music Ensemble Activity 4352 - Contemporary and Electroacoustics Ensemble III (1.5 credit hours)  
 Music Ensemble Activity 4452 - Contemporary and Electroacoustics Ensemble IV (1.5 credit hours)

### Electives

Two courses from any Faculty or School

### Notes

<sup>1</sup> 1.5 credit hours

<sup>2</sup> Students may complete multiple offerings of Music 3000 to meet the Music elective requirement.

#### h. Concentrations

Students completing the Music major may opt to further specialize in one of four areas by completing one of the following concentrations. Concentrations are optional. Concentrations are comprised primarily of subsets of the Music electives. In some cases students may need to utilize one or both of the two courses from any Faculty or School to meet the minimum requirements of the optional concentration. Courses used to meet the concentration may not be counted again outside of the seven electives and/or two electives from any Faculty or School. The completed concentration will be acknowledged on the official academic transcript.

#### History/Theory/Composition Concentration (optional)

##### Required Courses:

##### Five of:

Music 3000 - Seminar in Music (Series)  
 Music 3080 - Popular Music History (Series)  
 Music 3149 - Composition I  
 Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music (if not chosen to meet the Theory requirement)  
 Music 3721 - World Music  
 Music 4080 - Music After 1945  
 Music 4636 - Music Design for Film and Digital Media  
 Music 4660 - Form and Analysis (if not chosen to meet the Theory requirement)  
 Music 4721 - Canadian Music  
 Music 2500 - Introduction to Music Technology OR Music 2510 - Introduction to Digital Audio  
 One 3000/4000-level Music Independent Study approved by the Department of Music

#### Music Education Concentration (optional)

##### Required Courses:

Music 3500 - Conducting I  
 Music 3600 - Conducting II  
 Music 3738 - Music Education Technologies

##### Two of:

<sup>1</sup> Education 3875 - Brass and Percussion Methods  
<sup>1</sup> Education 3876 - Woodwind and String Methods  
<sup>1</sup> Education 3877 - Vocal and Classroom Instruments Methods  
 One 3000/4000-level Music Independent Study approved by the Department of Music

**Performance - Instrumental Concentration (optional)****Required Courses:****Five of:**

- Music 3500 - Conducting I
- Music 3560 - Musicians' Health and Health Research
- Music 3600 - Conducting II
- Music 3730 - Tonmeister: Classical Music Recording
- Two 4000-level Music Ensemble Activities in the Studio instrument (1.5 credit hours each)
- <sup>1</sup> Two additional Music Ensemble Activities (1.5 credits each)
- One 3000/4000-level Music Independent Study approved by the Department of Music

**Performance - Vocal Concentration (optional)****Required Courses:**

- Music 387I - Opera Workshop I
- Music 487I - Opera Workshop II
- Music Ensemble Activity 4550 - University Singers VII AND Music Ensemble Activity 4551 - University Singers VIII (1.5 credit hours each)

**Two of:**

- Music 3500 - Conducting I
- Music 3730 - Tonmeister: Classical Music Recording
- Music 3738 - Music Education Technologies
- <sup>1</sup> Music Ensemble Activity 3870 - Chamber Music I AND Music Ensemble Activity 387I - Chamber Music II (1.5 credit hours each)

**Notes**

<sup>1</sup> Students choosing these courses will need to include them in the two open electives.

## i. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

## 2. Studio Audition Procedure

Studio Course instruction is available in piano, voice, strings, guitar, woodwinds, brass, percussion and composition.

**Fall Term:** Instrumental and vocal auditions for the fall term are held in February, March and May. Although a live audition is highly preferred, it is possible to submit an audition video to SlideRoom ([ulethbridge.slideroom.com](http://ulethbridge.slideroom.com)) by the deadline of June 15.

**Spring (January) Term:** Instrumental and vocal auditions are held within the last two weeks of November only if space is available. Although a live audition is highly preferred, it is possible to submit an audition video to SlideRoom ([ulethbridge.slideroom.com](http://ulethbridge.slideroom.com)) by the deadline of November 15.

**Note:** Some entrance scholarships are available based on live auditions and completing the appropriate scholarship application form by the deadline (Early entrance - March 1; others - June 1).

Audition dates and more audition information:

[www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements](http://www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements)

Audition application:

[www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements/studio-audition-application-form](http://www.ulethbridge.ca/fine-arts/student-support/admissions/music-additional-requirements/studio-audition-application-form)

Instrumental and vocal auditions must be accompanied unless the piece is written as an unaccompanied solo. Applicants are encouraged to supply the accompanist. If that is not possible, please call 403-329-2495 at least two weeks prior to the scheduled audition.

Students who wish an emphasis in composition must:

- a. Successfully complete an instrumental or vocal audition at the entry level for Music Studio 2148 - Studio I - Instrument; and
- b. Successfully complete a composition audition.

Requests for a specific studio instructor should be made at the time of the audition. Every effort will be made to accommodate the request, but final assignment of instructors rests with the Department of Music.

Late auditions will be granted under extenuating circumstances, but admission to Studio courses is not guaranteed after the audition deadline.

Once enrolled in Studio, students must achieve a minimum grade of 'C' in order to be eligible for the subsequent course in their Studio sequence (Studio II-VIII). Should a grade below 'C' be earned, advancement to the next Studio will be based upon the results of a mandatory audition.

Studio courses may not be repeated for the purposes of grade replacement except in the case where a student has previously earned an 'F' (an audition for re-entry to the Studio sequence is required).

Students who withdraw from a Studio course or have not registered in a Studio course for one or more consecutive terms are required to audition for re-entry to the studio sequence.

Practice facilities are available to Studio course registrants. Detailed information concerning audition requirements and Studio course procedures may be obtained from the Department of Music.

### 3. Additional Information

Ensemble Activities include the University Singers, Women's Chorus and Vox Musica choral ensembles; the University Wind Orchestra; Collaborative Piano/Guitar; Orchestra; Jazz Ensemble; Percussion Ensemble; Electroacoustic Ensemble; Chamber Ensembles; and Collegium Musicum. Ensemble Activity courses carry a 1.5 credit hour weight (one-half course credit). Ensemble Activity courses may be taken for credit by any student but are also available to all qualified students on a non-credit basis. In addition to the six required Ensemble Activity courses listed in the degree requirements, B.Mus. degree students may credit a maximum of four Ensemble Activity courses (6.0 credit hours) toward their degree (see **Academic Regulations, Exceeding Course Limits, p. 56**).

The Department of Music presents numerous recitals for the general public including Ensemble concerts and numerous other musical events and lectures. Contact the University Theatre Box Office or the Department of Music for further details.

## h. Post-Diploma Degree Program (Admission after a Two-Year Diploma)

A minimum of 20 courses (60.0 credit hours), at least 12 of which are in the discipline: Art, Art History, and Museum Studies for the B.F.A. - Art; Drama for the B.F.A. - Dramatic Arts; or Music and Music Studio for the B.Mus. A GPA of at least 2.00 must be maintained at all times.

### 1. Program Requirements

- A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) in all courses in the Fine Arts discipline.
- Completion of the Liberal Education List Requirement. Courses from the Diploma may be used toward this requirement. Contact an academic advisor in the Faculty of Fine Arts for detailed information (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- A minimum of 10 courses at or above the 3000 level.
- Not more than three Independent Study courses may be taken for credit toward the degree (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- The entire program must be approved in advance by an academic advisor in the Faculty of Fine Arts.
- Residence requirement: 20 courses.

### 2. Course Requirements

All current specified course requirements for the B.F.A. or B.Mus. will apply. Courses from the diploma program may apply. Depending on the content of the diploma presented, students will be required to complete a 20-course subset of the courses required for the four-year degree program. These courses are referenced below:

- Required Art, Art History, and Museum Studies Courses (**p. 176**)
- Required Drama Courses (**p. 179**)
- Required Music Courses (**p. 185**)

## i. Post-Diploma Degree Program (Admission after a Three-Year Diploma)

A minimum of 15 courses (45.0 credit hours), at least eight of which are in the discipline: Art, Art History, and Museum Studies for the B.F.A. - Art; Drama for the B.F.A. - Dramatic Arts; or Music and Music Studio for the B.Mus. A GPA of at least 2.00 must be maintained at all times.

### 1. Program Requirements

- A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) in all courses in the Fine Arts discipline.
- Completion of seven courses from the Social Sciences and Sciences to fulfill the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**):
  - Two courses from each of List II - Social Science Courses and List III - Science Courses.
  - Three additional courses from either of these two areas.
- A minimum of eight courses at or above the 3000 level.
- Not more than three Independent Study courses may be taken for credit toward the degree (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- The entire program must be approved in advance by an academic advisor in the Faculty of Fine Arts.
- Residence requirement: 15 courses.

### 2. Course Requirements

All current specified course requirements for the B.F.A. or B.Mus. will apply. Courses from the diploma program may apply. Depending on the content of the diploma presented, students will be required to complete a 15-course subset of the courses required for the four-year degree program. These courses are referenced below:

- Required Art, Art History, and Museum Studies Courses (**p. 176**)
- Required Drama Courses (**p. 179**)
- Required Music Courses (**p. 185**)

**j. Post-Diploma B.F.A. - Multidisciplinary Degree Program (Admission after a Two- or Three-Year Diploma)**

A minimum of 20 courses, at least 12 of which are in the disciplines: Art, Art History, Cinema, Drama, Museum Studies, Music, Music Studio, or New Media. A GPA of at least 2.00 (on the University of Lethbridge 4.0 scale) must be maintained at all times.

**1. Program Requirements**

- a. Completion of seven courses from the Social Sciences and Sciences to fulfill the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**):
  1. Two courses from each of List II - Social Science Courses and List III - Science Courses.
  2. Three additional courses from either of these two areas.
- b. A minimum of 10 courses at or above the 3000 level. Courses from the diploma may be used toward the requirement.
- c. Not more than three Independent Study courses may be taken for credit toward the degree (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- d. The entire program must be approved in advance by an academic advisor in the Faculty of Fine Arts.
- e. Residence requirement: 20 courses.

**2. Course Requirements**

All current specified course requirements for the B.F.A. - Multidisciplinary will apply. Courses from the diploma program may apply. Depending on the content of the diploma presented, students will be required to complete a 20-course subset of the courses required for the four-year degree program. These courses are referenced below:

See **B.F.A. - Multidisciplinary, Degree Requirements (p. 182)**.

**Note:** Students must select, as their major area, the discipline that corresponds to their diploma. For example, if a student completed a diploma in Music, then Music must be the major area for the Post-Diploma B.F.A. - Multidisciplinary.

**k. BASc.**

See **Faculty of Arts and Science, Bachelor of Arts and Science (BASc.) (p. 95)**.

**l. B.F.A. - Art/B.Ed.**

See **Combined Degrees, Bachelor of Fine Arts - Art/Bachelor of Education (p. 268)**.

**m. B.F.A. - Dramatic Arts/B.Ed.**

See **Combined Degrees, Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education (p. 271)**.

**n. B.F.A. - New Media/B.Ed.**

See **Combined Degrees, Bachelor of Fine Arts - New Media/Bachelor of Education (p. 274)**.

**o. B.Mus./B.Ed.**

See **Combined Degrees, Bachelor of Music/Bachelor of Education (p. 277)**.

**p. Post-Diploma B.F.A. - Art/B.Ed.**

See **Combined Degrees, Post-Diploma Combined Degrees Programs in Fine Arts and Education (p. 314)**.

**q. Post-Diploma B.F.A. - Dramatic Arts/B.Ed.**

See **Combined Degrees, Post-Diploma Combined Degrees Programs in Fine Arts and Education (p. 314)**.

**r. Post-Diploma B.Mus./B.Ed.**

See **Combined Degrees, Post-Diploma Combined Degrees Programs in Fine Arts and Education (p. 314)**.

**s. B.F.A. - New Media/B.Mgt.**

See **Combined Degrees, Bachelor of Fine Arts - New Media/Bachelor of Management (p. 308)**.

**t. B.F.A. - New Media/B.Sc. (Computer Science)**

See **Combined Degrees, Bachelor of Fine Arts - New Media/Bachelor of Science (Computer Science) (p. 307)**.

**u. B.A. After an Approved Degree**

See **Faculty of Arts and Science, B.A., B.Sc. or BASc. After an Approved Degree (p. 136)**.

**v. B.F.A. or B.Mus. After an Approved Degree**

The Faculty of Fine Arts offer the Bachelor of Fine Arts - Art, Bachelor of Fine Arts - Dramatic Arts, Bachelor of Fine Arts - Indigenous Art, Bachelor of Fine Arts - Multidisciplinary, Bachelor of Fine Arts - New Media, and Bachelor of Music degree programs to holders of previous undergraduate degrees. This program is primarily of interest to degree-holders wishing to pursue an entirely different field of study to enhance or change their career focus and to international students seeking North American credentials.

**Requirements:**

A student may complete the B.F.A. or B.Mus. after an approved degree by meeting the following requirements:

1. Residence requirement: All courses in the second degree program must be completed at the University of Lethbridge.
2. Approval: The entire program must be approved in advance by the Dean.
3. Total program: A minimum of 20 courses after admission to the second degree program.
4. Academic standards: A cumulative GPA of at least 2.50 (on the University of Lethbridge 4.0 scale) in the Fine Arts discipline(s), and an overall cumulative GPA of at least 2.00 must be maintained at all times.



5. Liberal Education List Requirement: Six courses, two from each of List I, List II, and List III (see **School of Liberal Education, Liberal Education List Requirement, p. 81**). Courses earned towards a previous degree may be used to meet this requirement.
6. Course Level: A minimum of 10 courses at or above the 3000 level.
7. Independent Study: Not more than three Independent Study courses may be taken for credit toward the degree.
8. Fine Arts Course Requirements:
  - a. A minimum of 15 courses in the Fine Arts discipline.
  - b. All current required courses, including electives, in the Fine Arts discipline must be completed.
  - c. Credit earned towards a previous degree may be used to determine the requirements for the second bachelor's degree.

**Note:** *The length of a second degree program may vary due to the sequencing of required courses in the chosen Fine Arts discipline.*

## 10. DOUBLE MAJORS

Students completing the Bachelor of Arts may declare and complete two established majors for the B.A. through the procedures established by the Faculty of Arts and Science (see **Faculty of Arts and Science, Double Majors, p. 134**).

Students completing the Bachelor of Fine Arts - Art who have completed all of the minimum requirements for both the Art History/Museum Studies and Art Studio majors at the time of graduation may apply to convocate with both majors.

Students completing the Bachelor of Fine Arts - Dramatic Arts who have completed all of the minimum requirements for both the Performance and Technical/Design majors at the time of graduation may apply to convocate with both majors.

Students completing the Bachelor of Music who have completed all of the minimum requirements for both the Performance and Technical/Design majors at the time of graduation may apply to convocate with both majors.

Students wishing to officially declare a double major in the B.F.A. - Art, B.F.A. - Dramatic Arts, or B.Mus. may do so after completion of at least 10 courses (30.0 credit hours) with a minimum cumulative GPA of 3.00.

The Faculty cannot guarantee that course sequencing and timetables will accommodate the double major combination within eight consecutive regular terms of work. Students choosing to complete two majors may need to complete more than the minimum 40 courses for the degree depending on the choice of majors.

Interested students are encouraged to consult with an academic advisor regarding the double major as early as possible in their academic programs.

## 11. ART GALLERY

The University of Lethbridge Art Gallery maintains the Art Collection, organizes on-campus and touring exhibitions for the entire campus and the general public, and provides research access to the collection to the Faculty of Fine Arts. The Collection is one of the most significant in Canada with over 13,000 objects including work from Canada, America, and Europe, as well as media ranging from drawing, printmaking, and painting to photography, sculpture, and installation. The majority of works span the nineteenth and twentieth centuries, but does include earlier periods and continues to grow with twenty-first century additions.

The Gallery programs are an integral part of the teaching program in the Department of Art. The collection was founded with the goal of providing students with an experience of original works of art on their own terms. Students have incomparable opportunities for research access to works in the Collection and to information associated with these works. Students and faculty are able to view individual works on request.

## 12. UNIVERSITY THEATRES

The Faculty of Fine Arts has four performance spaces in the Centre for the Arts: the **University Theatre**, the Recital Hall/Film Theatre, the David Spinks Theatre, and the Drama Studio. The University Theatre is a 450 seat fully-equipped proscenium theatre, while the **Recital Hall/Film Theatre** is a smaller venue ideally suited for music concerts, lectures and films. The **David Spinks Theatre** is a completely equipped black box theatre with flexible seating for approximately 220 and the **Drama Studio** is a smaller version of the Spinks Theatre.

All four of the performance spaces are prime teaching facilities of the Departments of Drama and Music. Visiting artists complement and support the programs of the Faculty and of the University as a whole.

## 13. CONSERVATORY OF MUSIC

The University of Lethbridge Music Conservatory offers non-credit individual and group instruction to students of all ages and ability levels. The Conservatory Program offers instruction in piano, voice, strings, guitar, woodwinds, brass and percussion. Classes are also offered in theory and history. Ensemble Activities include chamber music, string orchestras, world drumming, as well as choirs.

Prospective students should contact the Conservatory at tel. 403-329-2304 for information on programs, instructor availability and placement. Returning students may contact Recreation Services directly for registration (PE209; tel. 403-329-2706). Students are accepted for registration at any time during the fall, winter and spring/summer sessions, provided space is available.

### a. Music Conservatory Fees

Fees based on number of weeks in study. Please visit the website for current fees [www.ulethbridge.ca/music-conservatory/private-lessons](http://www.ulethbridge.ca/music-conservatory/private-lessons).

### b. Theory Program

An opportunity for preparation for 'standard' examination systems will be available as the courses will align with the requirements prescribed by the Royal Conservatory of Music and Western Board of Music for completion of their programs.

### c. Music Ensemble Activity Fees

192 Please visit the website for current fees [www.ulethbridge.ca/music-conservatory/programs](http://www.ulethbridge.ca/music-conservatory/programs).

# FACULTY OF HEALTH SCIENCES

<b>1. GENERAL PHILOSOPHY.....</b>	<b>194</b>	<b>4. APPLIED STUDIES AND CO-OPERATIVE</b>	<b>198</b>
<b>2. ADVICE AND INFORMATION .....</b>	<b>194</b>	<b>EDUCATION .....</b>	<b>198</b>
a. General.....	194	<b>5. INDEPENDENT STUDY.....</b>	<b>198</b>
b. Academic Advising .....	194	<b>6. POLICIES AND REGULATIONS.....</b>	<b>198</b>
c. Skills and Abilities for Becoming a Registered Nurse.....	194	a. Standards of Professional Conduct .....	198
<b>3. ADMISSION .....</b>	<b>194</b>	b. Academic Standing .....	198
a. Bachelor of Nursing .....	194	c. Required Withdrawal .....	199
b. Bachelor of Nursing After an Approved Degree .....	195	d. Dean's Honour List .....	199
c. Bachelor of Health Sciences.....	196	e. Standards for Distinction and Great Distinction .....	199
d. Post-Diploma Bachelor of Health Sciences .	196	f. Internship and Practicum Placements .....	199
e. Bachelor of Therapeutic Recreation.....	197	g. Nursing Regulations and Information .....	199
f. Bachelor of Health Sciences After an Approved Degree .....	197	<b>7. DEGREE PROGRAMS .....</b>	<b>200</b>
g. Bachelor of Health Sciences/Bachelor of Management .....	197	a. Bachelor of Nursing.....	200
h. Spoken English Language Proficiency Requirement (SELP).....	197	b. Bachelor of Nursing After Degree.....	201
i. Readmission after Required Withdrawal ...	197	c. Bachelor of Health Sciences.....	202
		d. Post-Diploma Bachelor of Health Sciences .	204
		e. Bachelor of Therapeutic Recreation .....	205

## I. GENERAL PHILOSOPHY

The Faculty of Health Sciences bases its statement of philosophy upon that of the University. In doing so, it:

- a. Accepts the need for, and promotes a liberal education;
- b. Seeks to achieve openness, flexibility, and innovation in its programs and in its relationship with various communities;
- c. Promotes the development of life-long learning while fostering a spirit of inquiry and the critical interpretation of ideas;
- d. Encourages students to participate in all phases of university life and encourages the highest degree of interaction between student and faculty;
- e. Encourages close relationships with the local community as well as the wider provincial, national; and international communities; and
- f. Protects the right, for students and faculty, of free expression and communication of ideas, and expects that they will assume responsibility for such action.

## 2. ADVICE AND INFORMATION

### a. General

The Faculty welcomes both part-time and full-time students, however, it assumes and sometimes requires attendance as a full-time student. It is recognized that many students are working on a full- or part-time basis, and students are encouraged to consider very carefully their paid workload as they plan their program of study. The Faculty will not modify its course requirements in consideration of the work status of its students.

### b. Academic Advising

Students should obtain advice and information from an academic advisor as early as possible. This advice may include information about program planning, academic regulations, degree requirements, Withdrawal with Cause, readmission, and authorization for an Independent Study.

### c. Skills and Abilities for Becoming a Registered Nurse

Students require certain abilities and basic skills to successfully progress through the Nursing program and to meet the requirements of initial entry to practice in Alberta. To adequately recognize the general demands and performance expectations of the nursing profession, applicants are encouraged to review the document Requisite Skills and Abilities for Becoming a Registered Nurse in Alberta ([www.nurses.ab.ca/docs/default-source/document-library/guidelines/rn-requisite-skills.pdf](http://www.nurses.ab.ca/docs/default-source/document-library/guidelines/rn-requisite-skills.pdf)). Information in this document may be useful in identifying an applicant's fit with the requirements of becoming a Registered Nurse and/or identifying the applicant's potential need for accommodation<sup>1</sup> in becoming a member of the nursing profession.

<sup>1</sup>Accommodation is the process of making alterations (to the point of undue hardship) to the delivery of services so that those services become accessible to more people, including people with disabilities. The Alberta Human Rights Commission interpretive document *Duty to Accommodate Students with Disabilities in Post-Secondary Educational Institutions* stipulates that accommodation does not require post-secondary institutions to lower the academic or non-academic standards to accommodate students with disabilities nor does it relieve students of the responsibility to develop the essential skills and competencies expected of all students (Alberta Human Rights Commission, 2010).

## 3. ADMISSION

Applicants are advised to refer to **Admission (p. 21)** for general admission requirements and policies.

In addition to the English Language Proficiency requirement for general admission to the University of Lethbridge (see **Admission, English Language Requirements, p. 30**), all applicants to the Faculty of Health Sciences must also meet a SELP requirement (see **Spoken English Language Proficiency Requirement (SELP), p. 197**).

For Additional Admission Requirements by Program, see **Admission, Additional Admission Requirements by Program (p. 23)**.

For Application Deadlines, see **Admission, Application Deadlines (p. 23)**.

### a. Bachelor of Nursing

The Bachelor of Nursing (B.N.) program is offered collaboratively by the University of Lethbridge and Lethbridge College. Applicants must apply for admission directly to the University of Lethbridge. Newly admitted students will register in and attend courses at Lethbridge College for the first two years of the program. For the final two years, students will register in and attend courses at the University of Lethbridge.

Enrolment in the B.N. program is limited and fulfilment of the minimum admission requirements does not guarantee admission. The Faculty of Health Sciences reserves the right of selection of all applicants for admission based on academic qualifications.

#### 1. Competitive Admission

For competitive admission purposes, applicants will be ranked on the basis of the grade average of the five required courses (see **Admission, Additional Admission Requirements by Program, p. 23**).

#### 2. Health Care Experience

A limited number of exceptionally qualified applicants with previous health care related experience who do not meet current competitive admission requirements will be considered on a case-by-case basis. Applicants who are seeking admission based on this experience should submit the following documents by the Decision Document Deadline (see **Admission, Application Deadlines, p. 23**):

- a. A *Letter of Intent*, describing the nature of previous experience as it relates to nursing and the reason for pursuing Nursing
- b. A *Letter of Reference* from an employer
- c. A resume detailing relevant work, volunteer, and life experience

**Note:** Number of years, currency and relevance of experience will be considered.

### 3. Returning After an Absence to the B.N. program

Applicants seeking readmission to the B.N. program will be considered based on academic qualifications, a letter of intent, and available space in the program. The *Letter of Intent* must be submitted at the time of application (see [www.ulethbridge.ca/healthsciences/intent](http://www.ulethbridge.ca/healthsciences/intent)).

### 4. Applicants transferring from another B.N. program

Transfer applicants from B.N. programs at other post-secondary institutions must submit a *Letter of Intent* at the time of application (see [www.ulethbridge.ca/healthsciences/intent](http://www.ulethbridge.ca/healthsciences/intent)).

### 5. Degree Holders

Applicants who have an earned degree from a recognized university and who wish to enter the B.N. program may have their course load reduced to the extent that the first degree includes courses that are required in the B.N. program. Due to the sequencing of Nursing courses, such course reduction may not reduce the length of the program.

### 6. Time Limit for Retention of Courses

Nursing courses must have been completed at an accredited post-secondary institution not more than seven years prior to the expected date of completion of the B.N. program, and Human Anatomy/Physiology and Microbiology courses must have been completed at an accredited post-secondary institution not more than 10 years prior to the expected date of completion of the B.N. program. See **Academic Regulations, Residence Requirements and Time Limits (p. 58)**.

### 7. Required Documentation

Newly admitted students must provide the following documents by the first day of classes:

- A specific schedule of immunization (forms provided by Lethbridge College). Immunizations must be renewed as required in each year of the program.
- Evidence of a current CPR-HCP (Cardio Pulmonary Resuscitation at the Health Care Provider Level) certificate. Students must have current CPR-HCP certification before entering a clinical setting.
- Current criminal record check (or equivalent). Renewal of a criminal record check may be required at the discretion of faculty or staff of partnering agencies. See **Internship and Practicum Placements (p. 199)**.

**Note:** Students will not be allowed to enter practice settings if they do not provide these documents.

## b. Bachelor of Nursing After an Approved Degree

The Bachelor of Nursing After an Approved Degree (B.N. After Degree) is a 24-month continuous program offered in collaboration by the University of Lethbridge and Lethbridge College. Applicants must apply for admission directly to the University of Lethbridge. Newly admitted students will register in and attend courses at Lethbridge College for the first year of the program. For the final year of the program, students will register in and attend courses at the University of Lethbridge.

Enrolment in the B.N. After Degree program is limited and fulfilment of the minimum admission requirements does not guarantee admission. The Faculty of Health Sciences reserves the right of selection of all applicants for admission based on academic qualifications. Preference may be given to University of Lethbridge degree holders.

### 1. Applicants to the B.N. After Degree program must present an approved undergraduate degree (see **Admission, Previous Degree, p. 26**) no later than the final document deadline (see **Admission, Application Deadlines, p. 23**).

Applications are accepted from both domestic and international applicants.

Applicants who present a Nursing degree but are not yet licensed in a Canadian jurisdiction will be considered for admission on a case-by-case basis and are not eligible for admission without the approval of the Faculty of Health Sciences. The decision of the Faculty of Health Sciences will be final in these matters.

Applicants who have an approved degree from a recognized university may choose to complete either the B.N. After Degree program or the 40-course Bachelor of Nursing program (see **Bachelor of Nursing, p. 194**).

### 2. Reporting Mid-Point Grades

Applicants who are currently completing the above courses required for admission are strongly encouraged to report their mid-point grades using the *Request for Mid-Point Grades* form before the Admission Decision Documents deadline (see [www.ulethbridge.ca/healthsciences/forms](http://www.ulethbridge.ca/healthsciences/forms)). Reporting mid-point grades for other courses is optional.

### 3. Competitive Admission

Admission will be granted on a competitive basis using a grade point average (GPA) calculated using Human Anatomy and Physiology (6.0 credit hours), Statistics (3.0 credit hours) and the terms containing the most recent additional 17 graded university-level term courses (51.0 credit hours).

### 4. Indigenous Admission

Applicants who have declared their Indigenous ancestry at the time of application will have special consideration designed to help address the traditional underrepresentation of Indigenous people in health professions. For more information, contact an Academic Advisor.

## 5. Health Care Experience

A limited number of exceptionally qualified applicants with previous health care related experience who do not meet current competitive admission requirements will be considered on a case-by-case basis. Applicants who are seeking admission based on this experience should submit the following documents by the Decision Document Deadline (see **Admission, Application Deadlines, p. 23**):

- A *Letter of Intent*, describing the nature of previous experience as it relates to nursing and/or human health/healthcare, and the reason for pursuing Nursing
- A *Letter of Reference* from an employer
- A resume detailing relevant work, volunteer, and life experience

**Note:** Number of years, currency and relevance of experience will be considered.

## 6. Returning After an Absence to the B.N. After Degree program

Applicants seeking readmission to the B.N. After Degree program will be considered based on academic qualifications, a *Letter of Intent*, and available space in the program. The *Letter of Intent* must be submitted at the time of application (see [www.ulethbridge.ca/healthsciences/intent](http://www.ulethbridge.ca/healthsciences/intent)).

## 7. Required Documentation

Newly admitted students must provide the following documents by the first day of classes:

- A specific schedule of immunization (forms provided by Lethbridge College). Immunizations must be renewed as required in each year of the program.
- Evidence of a current CPR-HCP (Cardio Pulmonary Resuscitation at the Health Care Provider Level) certificate. Students must have current CPR-HCP certification before entering a clinical setting.
- Current criminal record check (or equivalent). Renewal of a criminal record check may be required at the discretion of faculty or staff of partnering agencies. See **Internship and Practicum Placements (p. 199)**.

**Note:** Students will not be allowed to enter practice settings if they do not provide these documents.

## c. Bachelor of Health Sciences

In addition to the general admission requirements outlined in **Admission (p. 21)**, applicants to the Bachelor of Health Sciences (B.H.Sc.) program must meet additional admission requirements (see **Admission, Additional Admission Requirements by Program, p. 23**).

### 1. Addictions Counselling

Enrolment in the Bachelor of Health Sciences (B.H.Sc.) program with a major in Addictions Counselling is limited and fulfilment of the minimum admission requirements does not guarantee admission. The Faculty of Health Sciences reserves the right of selection of all applicants for admission and readmission based on admission average and suitability for the program as indicated in the *Admission Statement*.

All applicants to the B.H.Sc. program with a major in Addictions Counselling must submit an *Admission Statement* by June 15. This statement provides the Faculty of Health Sciences with the experience, inspirations and goals of applicants to the Addictions Counselling major. The *Admission Statement* can be submitted at [www.ulethbridge.ca/healthsciences/statement](http://www.ulethbridge.ca/healthsciences/statement).

## d. Post-Diploma Bachelor of Health Sciences

### 1. Aboriginal Health

The Aboriginal Health major in the Post-Diploma B.H.Sc. program is available to applicants who have completed an approved two-year diploma from an accredited post-secondary institution in the fields of child and youth care, correction studies, criminal justice, health, social work, or indigenous studies with a minimum diploma GPA of 3.00 on the University of Lethbridge 4.00 scale. The Faculty of Health Sciences will consider diplomas in other areas of study on a case-by-case basis.

Subject to permission of the Faculty of Health Sciences, applicants with extensive practical experience in the field will be considered for admission with a diploma GPA below 3.00, but not less than 2.00 on the University of Lethbridge 4.00 scale.

### 2. Addictions Counselling

The Addictions Counselling major in the Post-Diploma B.H.Sc. program is available to applicants who have completed an approved college diploma with a minimum diploma GPA of 3.00 (on the University of Lethbridge 4.00 scale).

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to the Post-Diploma B.H.Sc. program. The Faculty of Health Sciences will consider other diplomas in Addictions Counselling on a case-by-case basis.

Subject to permission of the Faculty of Health Sciences, applicants with extensive practical experience in the field will be considered for admission with a diploma GPA below 3.00, but not less than 2.00 (on the University of Lethbridge 4.00 scale).

### 3. Public Health

The Public Health major in the Post-Diploma B.H.Sc. program is available to applicants who have completed an approved college diploma with a minimum diploma GPA of 3.00 (on the University of Lethbridge 4.00 scale).

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to the Post-Diploma B.H.Sc. program. The Faculty of Health Sciences will consider other diplomas on a case-by-case basis.

Subject to permission of the Faculty of Health Sciences, applicants with extensive practical experience in the field will be considered for admission with a diploma GPA below 3.00, but not less than 2.00 (on the University of Lethbridge 4.00 scale).

**e. Bachelor of Therapeutic Recreation**

Enrolment in the Bachelor of Therapeutic Recreation (B.T.R.) program is limited and fulfilment of the minimum admission requirements does not guarantee admission. The Faculty of Health Sciences reserves the right of selection of all applicants for admission and readmission based on admission GPA. Applicants must meet the following requirements for admission to this program:

**1. Approved Diploma**

Admission to the B.T.R. program is available to applicants who have completed an approved college diploma with a minimum diploma GPA of 2.00 (on the University of Lethbridge 4.00 scale).

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to the B.T.R. program. The Faculty of Health Sciences will consider other diplomas in Therapeutic Recreation or Recreation Therapy on a case-by-case basis.

**OR****Approved Undergraduate Degree**

Admission to the B.T.R. program is available to applicants who have completed an approved baccalaureate degree with a minimum admission GPA of 2.00 (on the University of Lethbridge 4.00 scale) from a recognized degree-granting institution. See **Admission, Previous Degree, p. 26**.

**Note:** *Preference may be given to applicants with diplomas in Therapeutic Recreation or Recreation Therapy.*

**2. Competitive Admission**

Admission will be granted on a competitive basis using a grade point average (GPA) calculated using the terms containing the most recent 20 graded university-level term courses (60.0 credit hours). Applicants presenting fewer than 20 graded university-level term courses will be considered using an overall diploma or degree GPA.

**f. Bachelor of Health Sciences After an Approved Degree**

The Faculty of Health Sciences does not offer a formal Bachelor of Health Sciences second-degree program, due to the high number of unique courses that are required in each major in the B.H.Sc. program. Degree holders will be eligible to have course requirements waived in recognition of equivalent courses completed in the previous degree, in accordance with the Residence Requirement for the program (see **Academic Regulations, Residence Requirements and Time Limits, p. 58**).

An individualized program of study will be planned and approved by an academic advisor in the Faculty of Health Sciences at the time of admission.

**g. Bachelor of Health Sciences/Bachelor of Management**

See **Bachelor of Health Sciences/Bachelor of Management (p. 311)**.

**h. Spoken English Language Proficiency Requirement (SELP)**

In addition to the English Language Proficiency requirement for general admission to the University of Lethbridge (see **Admission, English Language Requirements, p. 30**), applicants to the Faculty of Health Sciences must also meet a SELP requirement. This additional SELP requirement is essential because students must be able to communicate clearly and effectively with colleagues, instructors, professionals and the public in a variety of settings. The SELP requirement must be met prior to admission and may be shown in one of the following ways:

1. At least six consecutive years of full-time study in a country where the primary language is English from a recognized institution where the language of instruction is English. These studies must include satisfactory completion of English Language Arts 30-1 or its equivalent, or satisfactory completion of a university-level course in English (minimum 3.0 credit hours).
2. A score of at least 26 on the iBT TOEFL Speaking section.
3. A score of at least 7.5 on the Academic IELTS band for Speaking.
4. A score of at least 70 on the CAEL sub-test for Speaking.
5. A score of at least 3 on the MELAB Speaking section.
6. Current registration with the College and Association of Registered Nurses of Alberta (CARNA) or College of Licensed Practical Nurses of Alberta (CLPNA).

**Note:** *Test-based assessments must have successfully met requirements within the two years prior to the term of admission.*

**i. Readmission after Required Withdrawal**

A student dismissed from the Faculty of Health Sciences or the University of Lethbridge for academic reasons may apply for readmission by the appropriate deadline after a lapse of one full year. In addition to an *Application for Admission*, applicants must submit a letter to the Faculty of Health Sciences identifying the causes of previous unsatisfactory work and how they have been addressed and remedied. Readmission is not guaranteed. Students dismissed for a second time will not be readmitted to the program. Students are advised to contact an academic advisor as early as possible to discuss the possibility of readmission.

*Tabula Rasa* will be granted to all first-degree University of Lethbridge students upon readmission after required withdrawal for unsatisfactory academic performance. For details regarding the granting of *Tabula Rasa*, see **Admission, Readmission after Required Withdrawal (p. 28)**.

#### 4. APPLIED STUDIES AND CO-OPERATIVE EDUCATION

Faculty of Health Sciences students may be eligible to enhance their program through participation in Applied Studies courses and/or Co-operative Education.

See **Applied Studies and Co-operative Education (p. 339)** for more details. Further information may be obtained from the Career Bridge office (AH151; 403-329-2000; [career.bridge@uleth.ca](mailto:career.bridge@uleth.ca); [www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)).

#### 5. INDEPENDENT STUDY

Credit for Independent Study is at the discretion of the Faculty of Health Sciences upon recommendation of the supervising faculty member. Independent Study registration occurs after approval by the supervising faculty member, the Academic Advisor, and the Dean. Since the purpose of an Independent Study is to expand the student's program beyond the limits of the regular curriculum, it may not be used to duplicate course offerings and should be undertaken only in areas not covered by courses in the curricula.

#### 6. POLICIES AND REGULATIONS

##### a. Standards of Professional Conduct

The Faculty of Health Sciences at the University of Lethbridge, along with our collaborative partner, Lethbridge College, is committed to maintaining freedoms of thought, belief, opinion and expression for students. The programs also have an obligation to foster academic freedom within the context of relevant professional standards of conduct and with the goal of assisting students to becoming practicing health professionals. The standards outlined below give direction to behaviours which must be visible to all instructors within the program and related courses. These standards are in addition to the standards of Academic and Non-Academic Conduct for the University of Lethbridge outlined in Academic Regulations of this Calendar. Serious violations of the standards of professional conduct may result in a student being disciplined, including being suspended or expelled from the program. A student disciplined in this way may appeal under **Academic Regulations, Student Policies (p. 62)** of this Calendar.

##### 1. Bachelor of Nursing Programs

Students and faculty are bound by the Standards of Practice of the College and Association of Registered Nurses of Alberta ([www.nurses.ab.ca](http://www.nurses.ab.ca)) and the Code of Ethics of the Canadian Nurses Association ([www.cna-aic.ca](http://www.cna-aic.ca)).

##### 2. Bachelor of Health Sciences

##### a. Aboriginal Health

Ethical standards expected of students and faculty include the following fundamental principles:

1. Respect for the dignity of persons
2. Not willfully harming others
3. Integrity in relationships
4. Responsible caring
5. Respect for the health and well-being of others

##### b. Addictions Counselling

The ethical standards expected of students and faculty are those found in the Standards of Practice and Code of Ethics of the Canadian Counselling and Psychotherapy Association ([www.ccpa-accp.ca/ethics](http://www.ccpa-accp.ca/ethics)).

##### c. Public Health

The ethical standards expected of students and faculty are guided by the Public Health Code of Ethics of the Public Health Leadership Society and the American Public Health Association ([www.apha.org/-/media/files/pdf/membergroups/ethics/code\\_of\\_ethics.ashx](http://www.apha.org/-/media/files/pdf/membergroups/ethics/code_of_ethics.ashx)).

##### 3. Bachelor of Therapeutic Recreation

The ethical standards expected of students and faculty are found in the Canadian Therapeutic Recreation Association's Code of Ethics ([www.canadian-tr.org](http://www.canadian-tr.org)) and the Alberta Therapeutic Recreation Association's Code of Ethics ([www.alberta-tr.ca](http://www.alberta-tr.ca)).

##### b. Academic Standing

To be in good standing, on academic probation or required to withdraw, a student must fall within the GPA ranges as indicated below:

Number of Completed Courses (includes transfer courses) <sup>1</sup>	Good Standing	Academic Probation	Required Withdrawal
0-5	1.70 or higher	0.00-1.69	-
6-10	1.70 or higher	1.50-1.69	Below 1.50
11-20	1.85 or higher	1.70-1.84	Below 1.70
21-30	2.00 or higher	1.85-1.99	Below 1.85
31-40	2.00 or higher	-	Below 2.00

<sup>1</sup> The number of completed courses is based on a standard 3.0 credit hour course. Post-diploma students and students coming from Lethbridge College in the collaborative nursing programs are considered to have a minimum of 20 completed courses.

### c. Required Withdrawal

1. A student is required to withdraw from the Faculty of Health Sciences if any of the following occurs:
  - The cumulative GPA falls below the required levels for two or more consecutive terms at the end of the spring term;
  - The student fails any internship/practicum/clinical/field experience course; or
  - The student fails to meet the **Standards of Professional Conduct (p. 198)**

A student dismissed for academic reasons may apply for readmission by the appropriate deadline after a lapse of one full year (see **Admission, Required to Withdraw, p. 26**). Readmission is not guaranteed. Students dismissed for a second time will not be re-admitted to the program. Students are advised to contact an academic advisor as early as possible to discuss the possibility of readmission.

2. Faculty members who are supervising practice experiences may require a student to leave a practice setting at any time if, in the opinion of the faculty member, the student's practice threatens patient/client safety or is disruptive to patient/client care. The Dean will review the case in a timely fashion to determine whether, and under what conditions, the student may return to the practice setting.

### d. Dean's Honour List

Students with outstanding academic performance are recognized on the Dean's Honour List. The list is compiled twice yearly at the end of each of the fall and spring terms. There are two ways to qualify for the Dean's Honour List:

1. Students completing four or more graded courses in one term must achieve a GPA of 3.75 or higher on these courses; or,
2. Students completing three or fewer courses in one term must achieve a GPA of 3.75 or higher on these courses AND must have a cumulative University of Lethbridge GPA of 3.75 or higher AND must have completed a minimum of four graded courses at the University, including the current term.

### e. Standards for Distinction and Great Distinction

Students who have displayed outstanding academic performance during their undergraduate degree programs are awarded their degrees 'With Distinction' or 'With Great Distinction'.

Students with a cumulative GPA of 3.50 to 3.74 at graduation are awarded their degree 'With Distinction'. Students with a cumulative GPA of 3.75 or higher at graduation are awarded their degree 'With Great Distinction'.

### f. Internship and Practicum Placements

Practicum and internship placements provide a critical learning experience that is essential to the completion of the student's academic program in the Faculty of Health Sciences. Students engaged in these experiences should be aware that they are not only subject to University policies and procedures but also that of the agency/health facility in which they are placed. The policies of some external sites may include drug and alcohol testing. If a student is refused or released from an internship or practicum placement because they have tested positive, the Faculty of Health Sciences will undertake its best efforts to accommodate the student. The Faculty cannot, however, guarantee a subsequent placement.

Individuals with a history of addiction or dependency should note that placement agencies may require students to have a minimum two-year alcohol-free and other drug-free lifestyle prior to their acceptance in an internship or practicum placement.

While not an admission requirement for programs in the Faculty of Health Sciences, many agencies and organizations providing internship/practicum placements require criminal record checks (or equivalent) of students. Consequently, all students accepting an Offer of Admission from the Faculty of Health Sciences must immediately make application for a criminal record check and provide the completed criminal record check by the dates specified earlier in **Admission (p. 194)**.

Criminal record checks are not kept on file by the Faculty of Health Sciences, but must be in the student's possession and available to present to agencies and organizations providing internship/practicum placements. The consequences of a prior criminal conviction on a student's status in the program will be examined and discussed on an individual basis. Please note that students with certain criminal convictions may be refused by agencies and organizations providing internship/practicum placements. Should an internship/practicum placement be refused for any reason by an agency or organization, the Faculty of Health Sciences does not guarantee an alternate placement and the student may be required to withdraw from the program.

Students are required to inform the Faculty of Health Sciences if a change in their criminal record status has occurred while they are in the program and submit a new copy of their criminal record check.

### g. Nursing Regulations and Information

1. Nursing course sequence requirements

Due to the structured nature of the Bachelor of Nursing and Bachelor of Nursing After an Approved Degree programs, students are required to complete Nursing courses during the terms in which they are assigned. Students who do not follow the sequence plan each term are at risk of not being able to complete the program. Contact an academic advisor in the Faculty of Health Sciences.

2. Out-of-region practice course placement guidelines

Students who have clearly identified specific clinical learning goals that require practice placements outside the southwestern part of Alberta Health Services South Zone may apply for an out-of-region placement for Nursing 4750. Out-of-region placements are located beyond this geographic region and may include provincial, national, or international placements. Students intending to seek an out-of-region placement must have a cumulative GPA of at least 3.00 on all courses counted towards program requirements (including courses taken at the University of Lethbridge and courses transferred from Lethbridge College or other institutions that are used to meet program requirements) completed by the end of the first term of the third year for B.N. students or by the end of Summer Session III of the first year for B.N. After Degree students.



## 3. Travel requirements

The richness of the B.N. program is built upon our close connection with rural communities. As a result, travel outside Lethbridge will be expected for clinical practice, and students will incur costs related to this travel.

## 4. Graduation GPA calculation

A graduation GPA will be calculated using all courses taken for credit towards completion of the Bachelor of Nursing degree. This includes all required courses (Nursing and non-Nursing) completed at Lethbridge College, the University of Lethbridge, and other institutions from which transfer credit has been awarded.

**7. DEGREE PROGRAMS****a. Bachelor of Nursing**

## 1. General Requirements

- a. Successful completion of at least 41.3 course equivalents (124.0 credit hours) with a cumulative GPA of at least 2.00 on all courses taken for credit towards the degree.
- b. Attain a minimum cumulative GPA of 2.50 on all required Nursing and Health Sciences courses taken for credit towards the degree.
- c. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- d. Residence Requirement: 20 courses including a minimum of 12 in Nursing and Health Sciences. In order to meet the residence requirement, students must complete all third and fourth year courses (20 course equivalents/60.0 credit hours) at the University of Lethbridge.
- e. All degree requirements must be completed within seven years of completion of the first Nursing course used for credit towards the degree.

**Minimum Grade Requirement**

A minimum grade of 'C-' is required in all Nursing courses, BIO 1160/KNES 1160, and BIO 1161/KNES 1161 (or equivalents). Any student who receives a grade of 'D+' or lower is required to repeat the course and achieve a grade of 'C-' or higher before being allowed to take further Nursing courses and proceed in the program.

## 2. Course Requirements

## a. Core Courses: Nursing

Nursing 1400 - Becoming a Nurse  
 Nursing 1410 - Personal Health and Wholeness  
 Nursing 1420 - Intersectionality and Health  
 Nursing 1500 - Caring Communication  
 Nursing 1521 - Assessing Health  
 Nursing 1522 - Introduction to Praxis  
 Nursing 2300 - Evidence and Praxis  
 Nursing 2321 - Health of Persons  
 Nursing 2322 - Praxis with Persons  
 Nursing 2421 - Health of Families  
 Nursing 2422 - Praxis with Families  
 Nursing 3021 - Community and Population Health  
 Nursing 3022 - Praxis in Health Promotion  
 Nursing 3100 - Leadership and Change  
 Nursing 3121 - Mental Health and Addiction  
 Nursing 3122 - Praxis in Mental Health  
 Nursing 3200 - Praxis and the Digital Age  
 Nursing 3300 - Nursing and Global Health  
 Nursing 3321 - Acute Health Disruptions  
 Nursing 3322 - Praxis in Acuity  
 Nursing 4922 - Professional Preceptorship (15.0 credit hours)

## b. Core Courses: Non-Nursing

Biology 1160/Kinesiology 1160 - Anatomy and Physiology I  
 Biology 1161/Kinesiology 1161 - Anatomy and Physiology II  
 Biology 1155/Biochemistry 2300 - Human Nutrition  
 English 1150/Writing 1000 - Composition  
 Health Sciences 3450/Psychology 3450 - Applied Statistics for Clinical Practice  
 Health Sciences 3560/History 3560 - History of Nursing: Women and the Care of the Sick  
 Humanities 1155/Philosophy 1xxx - Ethics  
 Indigenous Studies 1155/Indigenous Studies 1000 - Introduction to Indigenous Studies  
 Psychology 1160/Psychology 1xxx - Introduction to Psychology  
 Sociology 1160/Sociology 1000 - Introduction to Sociology

**One of:**

Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Aboriginal Health 2000 - Indigenous Healing and Restoration  
 Aboriginal Health 3310 - Contemporary Issues in Aboriginal Health  
 Addictions Counselling 1000 - Introduction to Addiction Studies  
 Addictions Counselling 3002 - Health Education and Promotion  
 Health Sciences 1170 - Human Development Across the Lifespan  
 Health Sciences 2600/Women and Gender Studies 2100 - Women and Health  
 Health Sciences 2700/Sociology 2700 - Health and Society  
 Health Sciences 3125 - Pain Management  
 Health Sciences 3127 - Loss, Grief and Bereavement  
 Health Sciences 3570/Psychology 3570 - Contemporary Issues in Mental Health  
 Health Sciences 3802 - Gerontology  
 Health Sciences 3860 - Men's Health  
 Public Health 1000 - Introduction to Public Health  
 Public Health 2000 - Population Health

**Elective:**

One Social Science elective

## 3. Course Sequencing Plan

Due to the structured nature of the Bachelor of Nursing program, students are required to complete Nursing courses in the order in which they are assigned (see **Nursing Regulations and Information, p. 199**). For course sequencing plans see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

## 4. Accelerated Course Sequencing

Students may elect, during the second term of their second year, to complete the accelerated course sequencing. This option is open to B.N. students who are in good standing in the second term of second year. This may occur only after application by the student and approval by the Faculty of Health Sciences at the University of Lethbridge. Students in the accelerated program will complete their programs by the end of December rather than the end of April of the fourth year. The first two years are identical to the regular course sequencing of the B.N. Program. There may be a limited number of seats available.

**b. Bachelor of Nursing After Degree**

## 1. General Requirements

- Successful completion of at least 27 course equivalents (81.0 credit hours) with a cumulative GPA of at least 2.50 (on the University of Lethbridge 4.0 scale) on all courses taken for credit towards the degree.
- Residence requirement: 19.3 course equivalents (58.0 credit hours).
- All degree requirements must be completed within six years of the first Nursing course used for credit towards the degree.

**Minimum Grade Requirement**

A minimum grade of 'C' is required in Nursing 1182. A student who receives a grade of 'C-' or less must repeat the course prior to proceeding in the program.

A minimum grade of 'C-' is required in all other Nursing courses. Any student who receives a grade of 'D+' or lower is required to repeat the course and achieve a grade of 'C-' or higher before being allowed to take further Nursing courses and proceed in the program.

## 2. Course Requirements

Nursing 1181 - Nursing Concepts: Individuals and Families  
 Nursing 1182 - Introduction to Nursing: Assessment and Practice  
 Nursing 2254 - Maternity and Pediatric Nursing  
 Nursing 2268 - Disruptions in Health I  
 Nursing 2269 - Rural Nursing Practice  
 Nursing 2290 - Pharmacology and Applied Therapeutics  
 Nursing 2293 - Maternity and Pediatric Nursing Practice  
 Nursing 3020 - Community Health Nursing  
 Nursing 3125 - Mental Health Nursing  
 Nursing 3135 - Leadership in Nursing  
 Nursing 3230 - Disruptions in Health II  
 Nursing 3360 - Research in Nursing  
 Nursing 4135 - Global Health Issues and Trends  
 Nursing 4511 - Mental Health Nursing Practice  
 Nursing 4520 - Community Health Nursing Practice  
 Nursing 4531 - Medical-Surgical Nursing Practice  
 Nursing 4750 - Senior Preceptorship

## 3. Course Sequencing Plan

Due to the structured nature of the Bachelor of Nursing program, students are required to complete Nursing courses in the order in which they are assigned (see **Nursing Regulations and Information, p. 199**). For course sequencing plans see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

### c. Bachelor of Health Sciences

#### 1. General Requirements

- a. Completion of 40 course equivalents (120.0 credit hours) with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale) on courses taken for credit towards the degree.
- b. Attain a minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) on all Aboriginal Health, Addictions Counselling, Health Sciences, and Public Health courses taken for credit towards the degree.
- c. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- d. Not more than three Independent Study courses may be taken for credit towards the degree (see **Independent Study, p. 198**).
- e. Not more than 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- f. Residence requirement: 20 courses, including a minimum of ten from the Faculty of Health Sciences.
- g. All degree requirements must be completed within seven years of completion of the first required course offered by the Faculty of Health Sciences.

#### 2. Aboriginal Health

##### a. Course Requirements

##### 1. Core Courses

Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Aboriginal Health 2000 - Indigenous Healing and Restoration  
 Aboriginal Health 3300 - Traditional Aboriginal Health Concepts  
 Aboriginal Health 3310 - Contemporary Issues in Aboriginal Health  
 Aboriginal Health 4350 - Practicum in Aboriginal Health (15.0 credit hours)  
 Addictions Counselling 1020 - Introduction to the Counselling Interview  
 Addictions Counselling 2235 - Indigenous Perspectives on Counselling and Wellness  
 Health Sciences 1010 - Personal Health and Wellness  
 Health Sciences 2310 - Human Nutrition  
 Health Sciences 2700/Sociology 2700 - Health and Society  
 Health Sciences 3260 - Research in the Health Sciences  
 Health Sciences 3450/Psychology 3450 - Applied Statistics for Clinical Practice  
 Health Sciences 3510 - Program Planning and Evaluation  
 Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
 Management 2081 - Professional Communications Skills  
 Public Health 1000 - Introduction to Public Health  
 Public Health 3420 - Public Health Ethics  
 Sociology 1000 - Introduction to Sociology  
 Writing 1000 - Introduction to Academic Writing  
 One course in Blackfoot or Cree

##### 2. Electives:

One Fine Arts and Humanities elective  
 Two Social Science electives  
 Three Science electives  
 Nine Open electives  
 One 3000/4000-level course

##### b. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

#### 3. Addictions Counselling

##### a. Course Requirements

##### 1. Core Courses

Addictions Counselling 1000 - Introduction to Addiction Studies  
 Addictions Counselling 1020 - Introduction to the Counselling Interview  
 Addictions Counselling 1220 - Counselling I (Individual Counselling)  
 Addictions Counselling 2120 - Counselling II (Group Counselling)  
 Addictions Counselling 2140 - Drugs of Abuse  
 Addictions Counselling 2235 - Indigenous Perspectives on Counselling and Wellness  
 Addictions Counselling 2245 - Assessment of Addictions  
 Addictions Counselling 2275 - Trauma in Addictions Counselling

Addictions Counselling 3002 - Health Education and Promotion  
 Addictions Counselling 3050 - Internship in Addictions Counselling I (15.0 credit hours)  
 Addictions Counselling 3120 - Counselling III (Family Counselling)  
 Addictions Counselling 3130 - Diversity and Counselling  
 Addictions Counselling 3140 - Behavioural Pharmacology  
 Addictions Counselling 3240 - Concurrent Disorders  
 Addictions Counselling 3260 - Research in Addictions  
 Addictions Counselling 3420 - Ethics in Addictions Counselling  
 Addictions Counselling 4050 - Internship in Addictions Counselling II (15.0 credit hours)  
 Addictions Counselling 4200 - Community Development and Outreach  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Health Sciences 3150 - Abnormal Psychology  
 Health Sciences 3450/Psychology 3450 - Applied Statistics for Clinical Practice  
 Liberal Education 1000 - Knowledge and Liberal Education

**One of:**

Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception

\*Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal

*\*Students who select Psychology 1020 must complete a course from List III: Science Courses (p. 84) as the Open Elective*

2. Electives:

One 3000 or 4000-level Addictions Counselling elective  
 Four Fine Arts and Humanities electives  
 One Social Science elective  
 Two Science electives  
 One Open elective

b. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

4. Public Health Major

a. Course Requirements

1. Core Courses

Public Health 1000 - Introduction to Public Health  
 Public Health 2000 - Population Health  
 Public Health 2100 - Policy and Health  
 Public Health 3000 - Canadian and Global Perspectives  
 Public Health 3100 - Environmental Health  
 Public Health 3420 - Public Health Ethics  
 Public Health 4000 - Advanced Public Health  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Anthropology 1000 - The Anthropological Perspective  
 Biology 1010 - Cellular Basis of Life  
 Health Sciences 2003/Biology 2003 - Epidemiology  
 Health Sciences 2310 - Human Nutrition  
 Health Sciences 2400 - Medical Microbiology  
 Health Sciences 2700/Sociology 2700 - Health and Society  
 Health Sciences 3002 - Health Promotion  
 Health Sciences 3260 - Research in the Health Sciences  
 Health Sciences 3450/Psychology 3450 - Applied Statistics for Clinical Practice  
 Health Sciences 3510 - Program Planning and Evaluation  
 Health Sciences 3825/Management 3825 - Information in Health Care  
 Sociology 1000 - Introduction to Sociology

**One of:**

Writing 1000 - Introduction to Academic Writing

A university English course

2. Electives:

Three Fine Arts and Humanities electives  
 One Science elective  
 Five 3000/4000-level Aboriginal Health/Addictions Counselling/Public Health/Health Sciences electives  
 Ten electives offered by any Faculty or School

Students may choose to complete Public Health 4550 Practicum in Public Health (15.0 credit hours). For details, please consult an academic advisor in the Faculty of Health Sciences.

**Note:** Students interested in specific career paths can find a list of suggested courses at [www.ulethbridge.ca/healthsciences/phlists](http://www.ulethbridge.ca/healthsciences/phlists).

## b. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

d. **Post-Diploma Bachelor of Health Sciences**

## 1. General Requirements

- a. Completion of 20 course equivalents (60.0 credit hours) with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale) on courses taken for credit towards the degree.
- b. Attain a minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) on all required Addictions Counselling, Health Sciences and Public Health courses taken for credit towards the degree.
- c. Completion of two courses from each of Lists I, II, and III for the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- d. Not more than three Independent Study courses may be taken for credit towards the degree (see **Independent Study, p. 198**).
- e. Residence requirement: 20 courses (60 credit hours).
- f. All degree requirements must be completed within seven years of completion of the first required course offered by the Faculty of Health Sciences.

## 2. Aboriginal Health Major

Depending on the content of the diploma presented, students will be required to complete a 20-course subset of the courses required for the 40-course degree program (see **Aboriginal Health, p. 202**).

## 3. Addictions Counselling Major

Depending on the content of the diploma presented, students will be required to complete a 20-course subset of the courses required for the 40-course degree program (see **Addictions Counselling, p. 202**).

## 4. Public Health Major

Minor: Health Leadership (required)

## a. Public Health Major Course Requirements:

Public Health 1000 - Introduction to Public Health  
 Public Health 2000 - Population Health  
 Public Health 2100 - Policy and Health  
 Public Health 3000 - Canadian and Global Perspectives  
 Public Health 3420 - Public Health Ethics  
 Public Health 4000 - Advanced Public Health  
 Health Sciences 3260 - Research in the Health Sciences  
 Health Sciences 2003/Biology 2003 - Epidemiology  
 Health Sciences 2310 - Human Nutrition  
 Health Sciences 2400 - Medical Microbiology  
 Health Sciences 2450/History 2450 - Evolution of Health and Illness Care  
 Health Sciences 3450/Psychology 3450 - Applied Statistics for Clinical Practice  
 Sociology 1000 - Introduction to Sociology  
 Writing 1000 - Introduction to Academic Writing

## b. Health Leadership Minor Course Requirements:

Health Sciences 2700/Sociology 2700 - Health and Society  
 Health Sciences 3002 - Health Promotion  
 Health Sciences 3100 - Managing in Health Care  
 Health Sciences 3510 - Program Planning and Evaluation  
 Health Sciences 3800 - Teaching and Learning for Health Professions  
 Health Sciences 3825/Management 3825 - Information in Health Care

**Note:** Students may choose to complete Public Health 4550 - Practicum in Public Health (15.0 credit hours). For details, please consult an academic advisor in the Faculty of Health Sciences.

## c. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

### e. Bachelor of Therapeutic Recreation

#### 1. General Requirements

- a. Successful completion of at least 20 course equivalents (60.0 credit hours) with a cumulative GPA of at least 2.50 (on the University of Lethbridge 4.0 scale) on all Therapeutic Recreation courses taken for credit towards the degree.  
A minimum grade of 'C' is required in all Therapeutic Recreation (TREC) courses. Any student who receives a grade of 'C-' or lower is required to repeat the course and achieve a grade of 'C' or higher.
- b. Residence requirement: 20 course equivalents (60.0 credit hours).
- c. All degree requirements must be completed within six years of the first Therapeutic Recreation course used for credit towards the degree.
- d. Completion of three courses from Lists I and II for the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**) as follows:
  1. At least one course from List I: Fine Arts and Humanities Courses; and
  2. At least two courses from List II: Social Science Courses.

#### 2. Course Requirements

Health Sciences 1060 - Human Anatomy and Physiology

Health Sciences 1170 - Human Development Across the Lifespan

Health Sciences 3150 - Abnormal Psychology

Therapeutic Recreation 3000 - Foundations of Therapeutic Recreation

Therapeutic Recreation 3100 - Program Planning in Therapeutic Recreation

Therapeutic Recreation 3200 - Introduction to Recreation and Leisure: Across the Life Course

Therapeutic Recreation 3300 - Processes and Techniques in Therapeutic Recreation

Therapeutic Recreation 3500 - Therapeutic Recreation for Diverse Populations

Therapeutic Recreation 3700 - Communication and Counselling Techniques in Therapeutic Recreation

Therapeutic Recreation 4000 - Issues and Trends in Therapeutic Recreation

Therapeutic Recreation 4100 - Research Design in Therapeutic Recreation

Therapeutic Recreation 4200 - Administration in Therapeutic Recreation

Therapeutic Recreation 4300 - Modalities, Interventions and Facilitation Techniques in Therapeutic Recreation

Therapeutic Recreation 4550 - Internship in Therapeutic Recreation (15.0 credit hours)

#### One of:

Aboriginal Health 3300 - Traditional Aboriginal Health Concepts

Health Sciences 2450/History 2450 - Evolution of Health and Illness Care

Health Sciences 4500/Fine Arts 4500 - Global Health, Fine Arts, and Social Change

Health Sciences 3560/History 3560 - History of Nursing: Women and the Care of the Sick

Kinesiology 2130 - Humanities Perspectives

Philosophy 2001 - Introduction to Ethics

One Elective (3.0 credit hours) from the Faculty of Health Sciences (ABHL, ADCS, HLSC, PUBH, TREC)

#### 3. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).



# DHILLON SCHOOL OF BUSINESS

<b>1. PHILOSOPHY AND PROGRAMS .....</b>	<b>209</b>	<b>7. REGULATIONS THAT APPLY TO COURSES TAKEN IN DHILLON SCHOOL OF BUSINESS PROGRAMS .....</b>	<b>213</b>
<b>2. DHILLON SCHOOL OF BUSINESS CAMPUSES</b>	<b>209</b>	a. Course Load .....	213
<b>3. ADVISING AND INFORMATION .....</b>	<b>209</b>	b. Prerequisite(s), Corequisite(s), and Recommended Background .....	213
<b>4. ADMISSION .....</b>	<b>210</b>	c. Independent Study .....	214
a. Bachelor of Management .....	210	d. Applied Studies .....	214
b. Post-Diploma Bachelor of Management ....	210	e. Visiting Student Authorization .....	214
c. Post-Diploma Bachelor of Management (25 course) .....	210	f. Co-operative Education .....	214
d. Bachelor of Management as a Second Degree .....	210	<b>8. GRADUATION .....</b>	<b>214</b>
e. Finance Diploma .....	210	a. Minimum Grade Requirement .....	214
f. Certificate in Management .....	211	b. Minimum Cumulative Grade Point Average	215
g. Post-Bachelor Certificates .....	211	c. Graduation GPA Calculation .....	215
h. Combined Post-Bachelor Certificates/CPA Bridging .....	211	d. Limit on Introductory-Level Courses .....	215
i. Bachelor of Management/Bachelor of Education .....	211	e. Maximum Number of Activity Courses ....	215
j. Bachelor of Arts or Bachelor of Science/ Bachelor of Management .....	211	f. Residence Requirement .....	215
k. Post-Diploma Bachelor of Management/ Bachelor of Education .....	211	g. Time Limit for Program Completion .....	216
l. Bachelor of Fine Arts - New Media/ Bachelor of Management .....	211	h. Liberal Education List Requirement .....	216
m. Bachelor of Health Sciences/Bachelor of Management .....	211	<b>9. INSTITUTIONAL HONOURS .....</b>	<b>216</b>
n. Returning After an Absence from the Dhillon School of Business .....	211	a. Dean's Honour List .....	216
o. Readmission after Required Withdrawal ...	211	b. Standards for Distinction and Great Distinction .....	216
<b>5. UNDERGRADUATE THESIS COURSE (HONOURS THESIS DESIGNATION) .....</b>	<b>212</b>	<b>10. BACHELOR OF MANAGEMENT (B.MGT.) ....</b>	<b>216</b>
a. Application .....	212	a. General Requirements .....	216
b. Prerequisites .....	212	b. Core Requirements .....	216
c. Supervision .....	212	<b>11. BACHELOR OF MANAGEMENT (B.MGT.) MAJORS .....</b>	<b>217</b>
d. Initial Approval .....	212	a. Accounting .....	217
e. Final Assessment .....	212	b. Agricultural Enterprise Management .....	218
f. Eligibility for 'Honours Thesis' Designation .	213	c. Computer Science .....	219
g. Standards for Continuance .....	213	d. Economics .....	219
<b>6. ACADEMIC STANDARDS .....</b>	<b>213</b>	e. Finance .....	220
a. In Good Standing .....	213	f. General Management .....	220
b. Academic Probation .....	213	g. Human Resource Management and Labour Relations .....	220
c. Required Withdrawal for One Full Year ....	213	h. Indigenous Governance and Business Management .....	221
		i. International Management .....	222
		j. Marketing .....	223
		k. Political Science .....	224



<b>12. POST-DIPLOMA BACHELOR OF MANAGEMENT</b> .....	<b>224</b>
a. General Requirements .....	224
b. Core Requirements .....	225
<b>13. POST-DIPLOMA BACHELOR OF MANAGEMENT MAJORS</b> .....	<b>225</b>
a. Accounting .....	225
b. Finance .....	226
c. General Management .....	226
d. Human Resource Management and Labour Relations .....	227
e. Indigenous Governance and Business Management .....	227
f. International Management .....	228
g. Marketing .....	229
<b>14. POST-DIPLOMA BACHELOR OF MANAGEMENT (25-COURSE)</b> .....	<b>230</b>
a. General Requirements .....	230
b. Program Requirements .....	230
<b>15. BACHELOR OF MANAGEMENT AS A SECOND DEGREE</b> .....	<b>231</b>
<b>16. DOUBLE MAJORS</b> .....	<b>231</b>
<b>17. COMBINED DEGREES</b> .....	<b>232</b>
<b>18. FINANCE DIPLOMA</b> .....	<b>232</b>
a. General Requirements .....	232
b. Requirements (20 courses) .....	232
<b>19. CERTIFICATE IN MANAGEMENT</b> .....	<b>233</b>
a. Finance Certificate .....	233
b. General Management Certificate .....	233
c. Human Resource Management and Labour Relations Certificate .....	233
d. Indigenous Governance and Business Management Certificate .....	234
e. International Management Certificate .....	234
f. Marketing Certificate .....	234
<b>20. POST-BACHELOR CERTIFICATE</b> .....	<b>235</b>
a. Post-Bachelor Certificate in Accounting Fundamentals .....	235
b. Post-Bachelor Certificate in Advanced Accounting/Chartered Professional Accountant (CPA) Bridging .....	236
<b>21. COMBINED POST-BACHELOR CERTIFICATES</b> .....	<b>237</b>
a. Combined Post-Bachelor Certificates in Accounting/Chartered Professional Accountant (CPA) Bridging .....	237

## I. PHILOSOPHY AND PROGRAMS

The Dhillon School of Business incorporates the University of Lethbridge philosophy of providing a liberal education into its programs. The program encourages personal growth through the enhancement of knowledge about the individual and society and our political and economic environments, and through development of interpersonal abilities, habits of precise reasoning and confidence in professional skills.

The School offers a four-year, 40-course program leading to the Bachelor of Management degree (B.Mgt.).

Within the B.Mgt. program, students may choose one of the following majors: Accounting; Agricultural Enterprise Management; Computer Science; Economics; Finance; General Management; Human Resource Management and Labour Relations; Indigenous Governance and Business Management; International Management; Marketing; and Political Science.

The School offers a two-year, 20-course Post-Diploma program leading to the Bachelor of Management degree, which is open to students holding an approved college diploma in business administration, management, or a related discipline. Majors available are Accounting; Finance; General Management; Human Resource Management and Labour Relations; Indigenous Governance and Business Management; International Management; and Marketing. In some cases, where a diploma does not provide the appropriate background for the major chosen, students will be assigned extra courses.

The School offers a 25-course Post-Diploma program with a General Management major leading to the Bachelor of Management degree. This program is available to graduates of approved diploma programs.

A 20-course Finance Diploma is also available from the Dhillon School of Business.

Certificate in Management programs for both degree-holding and non-degree students are also offered in the fields of Finance; General Management; Human Resource Management and Labour Relations; Indigenous Governance and Business Management; International Management; and Marketing.

The Dhillon School of Business offers two Post-Bachelor Certificate program options for students completing or updating pre-requisite courses for the Chartered Professional Accountant (CPA) professional education program, or seeking a certificate in Accounting (see **Post-Bachelor Certificate, p. 235**). A Combined Post-Bachelor Certificates in Accounting program is also available for students wanting to complete both Accounting certificates.

The Dhillon School of Business also offers a Bachelor of Management (B.Mgt.) as a Second Degree program (see **Bachelor of Management as a Second Degree, p. 231**), and as a combined degree program (see **Combined Degrees, p. 243**).

## 2. DHILLON SCHOOL OF BUSINESS CAMPUSES

The Dhillon School of Business offers programs on two campuses: Lethbridge and Calgary. On the Lethbridge campus, students can pursue all programs and majors offered by the Dhillon School of Business.

The Calgary campus serves adult learners who may be in the work force wanting to further their education. This campus offers the B.Mgt., Post-Diploma B.Mgt., Second Degree in Management, Finance Diploma, Post-Bachelor Certificates, Combined Post-Bachelor Certificates and Certificates in Management. The following majors are offered on the Calgary campus: Accounting, Finance, General Management, Human Resource Management and Labour Relations, and Marketing.

All Combined Degrees applicants will be assigned to the Lethbridge campus as Combined Degrees programs (B.A./B.Mgt., B.Sc./B.Mgt., B.F.A. - New Media/B.Mgt., B.H.Sc./B.Mgt., B.Mgt./B.Ed., and Post-Diploma B.Mgt./B.Ed.) cannot be completed in their entirety on the Calgary campus.

### Lethbridge Campus

Phone: 403-329-2153

Email: [dhillon.advising@uleth.ca](mailto:dhillon.advising@uleth.ca)

### Calgary Campus

Phone: 403-571-3360

Email: [calgary.campus@uleth.ca](mailto:calgary.campus@uleth.ca)

## 3. ADVISING AND INFORMATION

The need for programs of study to meet degree requirements makes it essential for all students to regularly seek advice concerning their academic goals, program and standing.

Students may obtain advice and information from the Dhillon School of Business Advising and Academic Support Offices at either the Lethbridge or Calgary campuses for:

- a. Program selection and planning
- b. Academic regulations and degree requirements
- c. Sequencing of courses, in order to meet prerequisite, corequisite, and recommended background requirements
- d. Adding experiential education opportunities into program requirements
- e. Approval to study at other universities

#### 4. ADMISSION

The Dhillon School of Business reserves the right of selection of all applicants for admission and readmission based on admission average. Courses considered for Dhillon School of Business transfer credit or approved diplomas completed at an accredited post-secondary institution, must have been completed not more than 8 years prior to admission to the Dhillon School of Business.

Applicants to Dhillon School of Business programs are advised to refer to **General Admission Requirements** at [www.ulethbridge.ca/ross/admissions/undergrad/general-reqs](http://www.ulethbridge.ca/ross/admissions/undergrad/general-reqs).

To meet **Additional Admission Requirements**, see [www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements](http://www.ulethbridge.ca/ross/admissions/undergrad/additional-admission-requirements); making specific note of admission requirements for quantitative majors (Accounting, Economics and Finance) versus non-quantitative majors (all other majors).

For **Application and Document Deadlines** see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines).

##### a. Bachelor of Management

Applicants may gain admission to the competitive Bachelor of Management (B.Mgt.) Program by meeting general and additional admission requirements. The fulfilment of the minimum admission requirements does not guarantee admission to this 40 course program. See **Bachelor of Management (B.Mgt.) (p. 216)** for program requirements.

##### b. Post-Diploma Bachelor of Management

Applicants may gain admission to the competitive Post Diploma Bachelor of Management Program by completing an approved diploma in Business Administration or Management, no more than eight years prior to admission.

Admissible applicants with approved diplomas more than eight years old, may be admitted to the 25-course Post-Diploma Bachelor of Management program and after accepting their offer, may be re-evaluated based upon the submission of their recent work experience.

Students may be required to extend their programs beyond 20 courses, depending on the major chosen and the diploma completed. For details, see **Post-Diploma Bachelor of Management (p. 224)**.

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to the Post-Diploma Bachelor of Management program. The Dhillon School of Business will consider diplomas not previously approved for admission on a case-by-case basis.

##### c. Post-Diploma Bachelor of Management (25 course)

Applicants may gain admission to the competitive Post Diploma Bachelor of Management (25 course) Program by completing an approved diploma.

Applicants to the Post-Diploma Bachelor of Management (25 course) program will be admitted to the General Management major. Applicants may choose a different major after admission by contacting an academic advisor. Additional courses will be required for the new major (see **Post-Diploma Bachelor of Management (p. 224)**).

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to the Post-Diploma Bachelor of Management (25 course) program. The Dhillon School of Business will consider diplomas not previously approved for admission on a case-by-case basis.

##### d. Bachelor of Management as a Second Degree

The Bachelor of Management (B.Mgt.) as a Second Degree Program (see **Bachelor of Management as a Second Degree (p. 231)**) is also available to applicants who have completed an approved undergraduate degree in a field other than Management or an equivalent. An approved degree is a baccalaureate degree requiring a minimum of 30 courses (90.0 credit hours), or its academic equivalent, from a recognized degree-granting institution.

Applicants are not eligible to pursue a second degree which is similar to one already completed at a recognized institution. Generally, degrees with identical or closely related majors are considered to be similar.

International applicants who possess a management-related degree from a recognized institution will be considered for admission on a case-by-case basis and are not admissible without the prior approval of the Dhillon School of Business. The decision of the School will be final.

##### e. Finance Diploma

Admission to the Finance Diploma is possible through the following admission routes:

- High school
- Six or more transfer courses
- A recognized college diploma in a non-Finance discipline
- A recognized undergraduate degree in a non-Finance discipline
- Non-matriculated/Mature adult admission (for applicants 21 years of age or older) (see **Admission, Adult Student (Mature) Admission Route, p. 26**).

Note that Mathematics 30-1, Mathematics 30-2, Mathematics 0500, or equivalent is required for admission to the Finance Diploma. Applicants with a college diploma or previous undergraduate degree are considered to have met the Math admission requirement.

International applicants who possess a finance-related diploma or degree from a recognized institution will be considered for admission on a case-by-case basis and are not admissible without the prior approval of the Dhillon School of Business. The decision of the School will be final.

**f. Certificate in Management**

Admission to the Certificate in Management Program is possible through four admission routes:

- Eight or more transfer courses
- A college diploma
- A previous undergraduate degree
- Non-matriculated/Mature adult admission (for applicants 21 years of age or older) (see **Admission, Adult Student (Mature) Admission Route, p. 26**).

Note that Mathematics 30-2 or equivalent is required for admission to majors in Finance, Human Resource Management and Labour Relations, and Marketing. Applicants with a Management-related college diploma or previous undergraduate degree are considered to have met the Math admission requirement.

For details see **Certificate in Management (p. 233)**.

**g. Post-Bachelor Certificates**

The 10-course **Post-Bachelor Certificate in Accounting Fundamentals** program (see **Post-Bachelor Certificate in Accounting Fundamentals, p. 235**) is available to applicants who have completed an approved undergraduate degree.

Please note that completion of this program may take more than one year of study due to course sequencing. Please contact an academic advisor to discuss sequencing, possible waivers and your specific program requirements.

The 6-course **Post-Bachelor Certificate in Advanced Accounting/CPA Bridging** program (see **Post-Bachelor Certificate in Advanced Accounting/Chartered Professional Accountant (CPA) Bridging, p. 236**) is available to applicants who have completed an approved undergraduate degree with an Accounting major, or substantially similar background.

Applicants who do not hold an Accounting Degree will be offered admission to the Post-Bachelor Certificate in Accounting Fundamentals program or the combined Post-Bachelor Certificates in Accounting program. The Dhillon School of Business will consider non-accounting degrees with substantial accounting courses for the 6-course advanced certificate program on a case-by-case basis. After submitting their application for admission, such applicants are required to submit their CPA evaluation to Dhillon School of Business for review to determine eligibility (see [www.cpawsb.ca/students-and-candidates/transcript-assessment](http://www.cpawsb.ca/students-and-candidates/transcript-assessment)).

**h. Combined Post-Bachelor Certificates/CPA Bridging**

The **Combined Post-Bachelor Certificates in Accounting** program (see **Combined Post-Bachelor Certificates in Accounting/Chartered Professional Accountant (CPA) Bridging, p. 237**) is available to applicants who have completed an approved undergraduate degree.

Please note that completion of this program may take five semesters of study due to course sequencing.

**i. Bachelor of Management/Bachelor of Education**

See **Combined Degrees, Bachelor of Management/Bachelor of Education (p. 280)**.

**j. Bachelor of Arts or Bachelor of Science/Bachelor of Management**

See **Combined Degrees, Bachelor of Arts/Bachelor of Management or Bachelor of Science/Bachelor of Management (p. 284)**.

**k. Post-Diploma Bachelor of Management/Bachelor of Education**

See **Combined Degrees, Post-Diploma Bachelor of Management/Bachelor of Education (p. 319)**.

**l. Bachelor of Fine Arts - New Media/Bachelor of Management**

See **Combined Degrees, Bachelor of Fine Arts - New Media/Bachelor of Management (p. 308)**.

**m. Bachelor of Health Sciences/Bachelor of Management**

See **Combined Degrees, Bachelor of Health Sciences/Bachelor of Management (p. 311)**.

**n. Returning After an Absence from the Dhillon School of Business**

Students returning after no more than a two-year absence may be readmitted to their program of study in the Dhillon School of Business upon application to the University and the School prior to the published deadline (see **Admission, p. 21**).

1. Students who are returning after an absence of no more than two years are eligible to return to their previous program of studies regardless of current admission requirements.
2. Any student who has been absent for more than two years or who has taken transferable post-secondary courses during an absence must meet current admission requirements.

**o. Readmission after Required Withdrawal**

Students dismissed for academic reasons may be granted readmission after the lapse of one year. To be eligible for readmission after required withdrawal, applicants will have completed no less than eight transferable courses (24.0 credit hours) with an overall GPA of 2.00 or higher (on the University of Lethbridge 4.00 scale) calculated on those courses taken after being required to withdraw. Students required to withdraw twice are not usually eligible for readmission.

*Tabula Rasa* will be granted to all first-degree students upon readmission after required withdrawal for unsatisfactory academic performance. For details regarding the granting of *Tabula Rasa*, see **Admission, Readmission after Required Withdrawal (p. 28)**.

Students readmitted after required withdrawal are readmitted on condition of academic probation and limited to registration in a maximum of four courses (12.0 credit hours). Such students will be governed by the program requirements of the Calendar in effect at the time of readmission (see **Admission, Year of the Calendar, p. 34**).

## 5. UNDERGRADUATE THESIS COURSE (HONOURS THESIS DESIGNATION)

Qualified students in the Bachelor of Management degree, Second Degree in Management, and Post-Diploma Bachelor of Management programs may elect to complete an Undergraduate Thesis course (6.0 credit hours) linked to their declared major. Students who complete all requirements and satisfy the academic standards required for the Undergraduate Thesis course for their declared major are eligible to receive the 'Honours Thesis' designation on their official academic transcript and degree parchment. The Undergraduate Thesis course is Management 4995. Please note that not all eligible candidates will be selected. Approval will also be subject to the availability of appropriate supervision.

### a. Application

Students are strongly recommended to apply to the Undergraduate Thesis course after completion of 10 University of Lethbridge courses (30.0 credit hours) with a GPA of 3.30 (on the University of Lethbridge 4.0 scale) or higher.

Applications to the Dhillon School of Business Undergraduate Thesis course must include academic transcripts, a resume, a Letter of Intent and written consent from supervisors of each of the program requirements. The application is available from the Dhillon School of Business Advising and Academic Support office or online at [www.ulethbridge.ca/dhillon/study/degrees/honours-thesis-designation](http://www.ulethbridge.ca/dhillon/study/degrees/honours-thesis-designation). Please see an academic advisor for more information.

### b. Prerequisites

Prospective 'Honours Thesis' candidates must meet the following requirements:

1. A GPA of 3.30 (on the University of Lethbridge 4.0 scale) or higher on the last 10 University of Lethbridge courses (30.0 credit hours) completed.
2. Two honours-approved Dhillon School of Business courses at the 3000 or 4000 level, one of which must be within the student's major.
3. Management 4895 - Honours Component I
4. Management 4896 - Honours Component II
5. One of the following enrichment experiences:
  - a. Management 3002 - Co-op Work Experience I
  - b. Management 3093 and Management 3094 - Integrated Management Experience
  - c. Full-term international exchange
  - d. Any TWO of the following: Management 3980 - Applied Studies, Management 3990 - Independent Study, International Management 4640 - Cross-Cultural Work Study (Series), Management 4980 - Applied Studies, or Management 4990 - Independent Study

**Note:** For information on international exchanges, see the International Programs website: [www.ulethbridge.ca/international/go-exchange](http://www.ulethbridge.ca/international/go-exchange).

### c. Supervision

Each prospective candidate for the Undergraduate Thesis course is responsible for obtaining support from a faculty supervisor for the Undergraduate Thesis.

### d. Initial Approval

1. The prospective student must present a Thesis Proposal to be approved by the supervisor and the Dhillon School of Business Honours Committee prior to registration in the course.
2. The supervisor will establish at the outset the weighting of the written and oral components of the Thesis, as well as the procedure for determining the final grade.
3. Subsequent changes to the approved Thesis Proposal must be approved by the supervisor.
4. Admission to the course is achieved through approval of the supervisor and the Dhillon School of Business Honours Committee.
5. The student must register for the Undergraduate Thesis course by the last day for course Add/Drop for the given fall/spring term or summer session.

### e. Final Assessment

The final assessment for the Undergraduate Thesis is based on two criteria:

1. Written Component
  - a. The Undergraduate Thesis must be a sustained piece of supervised research demonstrating a superior level of academic ability on a matter approved by the supervisor prior to registration in the course.
  - b. The Thesis should be of high quality and made publicly available by the Dhillon School of Business.
2. Oral Component

The student will be required to make a formal oral presentation demonstrating the ability to articulate clearly the nature of the Thesis undertaken, the research methodology, and the results of the Thesis. This component is a demonstration of the student's competence in oral communication and not necessarily an oral defense of the Thesis, unless so designated by the School.

**f. Eligibility for 'Honours Thesis' Designation**

Students are eligible to receive the 'Honours Thesis' designation on their official academic transcript and degree parchment only if they achieve a minimum grade of 'B' (3.00 or higher) for the Undergraduate Thesis course, and have satisfactorily completed the required oral component. Students who achieve grades between 'D' and 'B-', inclusive, and/or do not complete the oral component will retain credit for the equivalent of two courses (6.0 credit hours) but will not be eligible for the 'Honours Thesis' designation. Please refer to **Academic Regulations, Honours Thesis Designation (p. 57)** for more information on the 'Honours Thesis' designation.

**g. Standards for Continuance**

In order to receive the 'Honours Thesis' designation on their official academic transcript and degree parchment, students must maintain a term GPA of at least 3.30 at the University of Lethbridge. Students will be given a one term grace period if the term GPA falls below 3.30, to accommodate life circumstances.

Inquiries about the Undergraduate Thesis should be directed to the Dhillon School of Business Advising and Academic Support Office (M2060; tel. 403-329-2153; email: dhillon.advising@uleth.ca; website: www.ulethbridge.ca/dhillon/study/degrees/honours-thesis-designation).

*Note: The Undergraduate Thesis course is not available for Combined Degrees programs.*

**6. ACADEMIC STANDARDS**

**a. In Good Standing**

To be in good standing, a student must maintain the following minimum cumulative GPA or higher:

Number of Credit Hours (includes U of L and transfer)	U of L GPA
1.0 - 30.0	1.70
30.1 - 75.0	1.85
75.1 or more	2.00

The number of credit hours refers to a student's overall GPA hours (including University of Lethbridge and transfer credit). Post-diploma students are considered to have a minimum of 60.0 credit hours and students in the B.Mgt. as a Second Degree program are considered to have 120.0 credit hours.

**b. Academic Probation**

Following fall and spring terms, students whose cumulative GPA falls below the levels identified in the table in **Academic Standards, In Good Standing (p. 213)**, will be placed on academic probation. A student on academic probation may not register in more than four courses in a term.

**c. Required Withdrawal for One Full Year**

Following spring term, students whose cumulative GPA falls below the levels identified in the table in **Academic Standards, In Good Standing (p. 213)**, for two or more consecutive terms (excluding summer and terms of complete withdrawal), will be required to withdraw from the Dhillon School of Business.

A student who has taken fewer than six courses at the University of Lethbridge will not be required to withdraw.

A student required to withdraw for academic reasons must wait a minimum of 12 months from the date of the required withdrawal to reapply. The Dhillon School of Business does not guarantee that students who have been required to withdraw will be readmitted. Upon readmission, a student is admitted on condition of academic probation.

**7. REGULATIONS THAT APPLY TO COURSES TAKEN IN DHILLON SCHOOL OF BUSINESS PROGRAMS**

The Dhillon School of Business offers courses in the following subject areas: Accounting (ACCT), Agricultural Enterprise Management (AGEM), Finance (FINC), Human Resources and Labour Relations (HRLR), Indigenous Governance and Business Management (IGBM), International Management (IMGT), Management (MGT), and Marketing (MKTG).

Contact advisors in the Dhillon School of Business Advising and Academic Support Offices at the Lethbridge or Calgary campuses for more details about the following regulations.

**a. Course Load**

The usual course load for a full-time student is five courses (15.0 credit hours) per term. Students in good standing may take up to six courses (18.0 credit hours) in the fall and spring terms (see **Registration, Maximum Credit Hours, p. 40**). Students may accelerate their programs by carrying heavier study loads or by attending summer sessions (see **Registration, Summer Session, p. 41**). Students may also complete degree requirements with a diminished course load or entirely on a part-time basis.

**It should be stressed that heavy course loads are a common cause of poor academic performance.**

**b. Prerequisite(s), Corequisite(s), and Recommended Background**

Course prerequisites and corequisites must be met. Only students with the appropriate prerequisite(s) and/or corequisite(s) are considered for enrolment. For some courses, a recommended background is listed instead of, or in addition to, the prerequisite(s) and/or corequisites(s) so that the student may judge his or her own academic preparation (see **Course Catalogue, Prerequisite(s), Corequisite(s), Mutual Exclusion(s), Recommended Background, and Other Registration Restrictions, p. 346** and **Academic Regulations, Waiver of Prerequisite/Corequisite, p. 56**).

### c. Independent Study

A student may be permitted to earn credit by completing an Independent Study, designated by the numbers Management 3990 or Management 4990. An Independent Study may not be used to duplicate course offerings.

A proposal for study must be submitted to a faculty member who will supervise the proposed study. The student may proceed with a formal registration of the study when approval from the instructor and Dhillon School of Business Dean has been obtained. It is advisable to register in the study in the term in which the work is expected to be completed.

All applications for Independent Studies shall be reviewed by the Dhillon School of Business Dean. Completion of a written research report is required.

The grading mode is standard.

The prerequisite for Management 3990 is third-year standing (a minimum of 60.0 credit hours), admission, and successful application to the Dhillon School of Business.

The prerequisite for Management 4990 is fourth-year standing (a minimum of 90.0 credit hours), admission, and successful application to the Dhillon School of Business.

No student shall receive credit for more than three such Independent Studies while registered in the Bachelor of Management or Post-Diploma Bachelor of Management programs (see **Academic Regulations, Exceeding Course Limits, p. 56**).

### d. Applied Studies

Dhillon School of Business students may be eligible to enhance their program and gain credit for employment or volunteer experiences through participation in Applied Studies courses. Students may earn a maximum of 18.0 credit hours in Applied Studies courses (see **Academic Regulations, Exceeding Course Limits, p. 56**), broken down as follows:

- A maximum of 6.0 credit hours in Management 3980 and Management 3981;
- A maximum of 6.0 credit hours in Management 4980 and Management 4981; and
- A maximum of 6.0 credit hours in Applied Studies 2000-2001 and Applied Studies 2010-2011.

See **Applied Studies and Co-operative Education (p. 339)** for more details. Application packages, registration deadline dates and further information can be obtained from the Career Bridge office (AH151; 403-329-2000; [career.bridge@uleth.ca](mailto:career.bridge@uleth.ca); [www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)).

### e. Visiting Student Authorization

Students wishing to complete courses at another institution for credit within their Dhillon School of Business program must apply and be approved for Visiting Student Authorization (VSA) prior to registering at the other institution. Applications must be made by deadlines outlined in the **Academic Schedule (p. 15)**.

A Dhillon School of Business student will qualify for VSA if the student:

- is in good academic standing and will meet residency requirements;
- is applying to take a course not currently offered in the term for which they are applying OR if the student is unable to attend a course for health reasons or due to a co-op relocation; and
- has not exceeded the allowed maximum of two VSA courses (six credit hours) within their program.

Students who are not granted a VSA because they do not meet the conditions listed above may appeal to the Dhillon School of Business Advising Office. Appeals will only be granted in exceptional circumstances where the student's graduation may be impacted.

Students will **not** be granted a VSA for courses that must be taken in the Dhillon School of Business for residency. For a list of these courses, refer to **Residence Requirement (p. 215)**, which addresses degree requirements for your major.

It is the student's responsibility to request transcripts from the other institution to be sent directly to the Admissions Office.

For further information, see **Registration, Visiting and Exchange Students (p. 39)**. Contact your academic advising office for VSA inquiries and applications.

### f. Co-operative Education

Dhillon School of Business students may be eligible to enhance their program through participation in Co-operative Education. Co-operative Education provides students with an opportunity to gain real-world work experience in their field of study.

See **Applied Studies and Co-operative Education (p. 339)** for more details. Further information can be obtained from the Career Bridge office (AH151; 403-329-2000; [career.bridge@uleth.ca](mailto:career.bridge@uleth.ca); [www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)).

## 8. GRADUATION

### a. Minimum Grade Requirement

Students must meet the minimum grade requirement specified for their program—see Bachelor of Management (B.Mgt.) (**p. 216**), Post-Diploma Bachelor of Management (**p. 224**), Finance Diploma (**p. 232**), Certificate in Management (**p. 233**), Bachelor of Arts/Bachelor of Management or Bachelor of Science/Bachelor of Management (**p. 284**), Bachelor of Management/Bachelor of Education (**p. 280**), Post-Diploma Bachelor of Management/Bachelor of Education (**p. 319**), Bachelor of Fine Arts - New Media/Bachelor of Management (**p. 308**), Bachelor of Health Sciences/Bachelor of Management (**p. 311**), Post-Bachelor Certificate (**p. 235**), and Combined Post-Bachelor Certificates (**p. 237**).

**b. Minimum Cumulative Grade Point Average**

For graduation, a student must attain a minimum cumulative GPA of 2.00 on courses taken at the University of Lethbridge. Courses from another institution accredited to a transfer student are not included in calculation of the cumulative GPA.

A student must also attain a minimum graduation GPA of 2.00 to graduate with a Bachelor of Management degree, a Finance Diploma, a Certificate in Management, or a Post-Bachelor Certificate.

**c. Graduation GPA Calculation**

The Dhillon School of Business calculates graduation GPA as follows:

Program	How GPA is Calculated
B.Mgt. (first degree)	GPA calculated on the last 20 courses <sup>1</sup> taken at the U of L.
Post-Diploma B.Mgt.	GPA calculated on the last 20 courses <sup>1</sup> taken at the U of L.
B.Mgt. (second degree)	GPA calculated on the last 20 courses <sup>1</sup> required for the second degree taken at the U of L.
B.Mgt./B.Ed.	GPA calculated on all Dhillon School of Business courses (from 10-20) <sup>1</sup> taken at the U of L.
Post-Diploma B.Mgt./B.Ed.	GPA calculated on all Dhillon School of Business courses (from 10-20) <sup>1</sup> taken at the U of L.
B.A./B.Mgt., B.Sc./B.Mgt., B.F.A. - New Media/B.Mgt., and B.H.Sc./B.Mgt.	GPA calculated on all Dhillon School of Business courses (from 10-20) taken at the U of L.
Finance Diploma	GPA calculated on the last 10 Dhillon School of Business courses <sup>1</sup> taken at the U of L towards the diploma.
Certificate in Management and Post-Bachelor Certificates	GPA calculated on the last five Dhillon School of Business courses <sup>1</sup> taken at the U of L.
Combined Post-Bachelor Certificates	GPA calculated on the last five Dhillon School of Business courses <sup>1</sup> taken at the U of L within the individual certificates.

<sup>1</sup> The courses needed for GPA calculation will be counted starting from the most recent courses completed to the least recent. If the last course falls in a term where the student has completed more courses than needed for GPA calculation, the courses with the highest grades in that term will be used.

**d. Limit on Introductory-Level Courses**

Not more than 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.

**e. Maximum Number of Activity Courses**

Not more than six (6.0) credit hours in Activity courses may be taken for credit towards the degree.

**f. Residence Requirement**

A student must satisfy the minimum residence requirement through successful completion of courses, or their equivalent, at the University of Lethbridge as follows:

**B.Mgt.**

As the first degree:

20 courses, including 10 3000 or 4000-level courses in Dhillon School of Business.

Additional Accounting and Finance residence requirements are found in the note below.

As the second degree:

15 courses, including at least 10 3000 or 4000-level courses in Dhillon School of Business.

Additional Accounting and Finance residence requirements are found in the note below.

**Post-Diploma B.Mgt.**

20 courses.

Additional Accounting and Finance residence requirements are found in the note below.

**Finance Diploma**

10 courses.

Additional Finance residence requirements are found in the note below.

**Certificate in Management**

Five courses towards the Certificate in Management.

For the Finance Certificate in Management, additional Finance residence requirements are found in the note below.



**Post-Bachelor Certificate in Accounting Fundamentals**

Five courses towards the Post-Bachelor Certificate in Accounting Fundamentals.

**Post-Bachelor Certificate in Advanced Accounting**

Five courses towards the Post-Bachelor Certificate in Advanced Accounting.

Additional Accounting and Finance residence requirements are found in the note below.

**Combined Post-Bachelor Certificates in Accounting**

Five courses towards the Post-Bachelor Certificate in Accounting Fundamentals.

Five courses towards the Post-Bachelor Certificate in Advanced Accounting.

Additional Accounting and Finance residence requirements are found in the note below.

**Note:** There are additional residence requirements that must be completed by students in the following majors:

*Accounting majors must complete five of the following courses at the University of Lethbridge: Accounting 3100, Accounting 3101, Accounting 3130, Accounting 3131, Accounting 3151, Accounting 3160, Accounting 3171, Accounting 3180, Accounting 3190, Accounting 4110, Accounting 4125/ Agricultural Enterprise Management 4125, Accounting 4130, Accounting 4151, Accounting 4160.*

*Finance majors must complete all courses from the following list, and which are part of their major, at the University of Lethbridge: Finance 3412, Finance 3441, Finance 3460, Finance 3470, Finance 3480, Finance 4421, Finance 4430, Finance 4451.*

**g. Time Limit for Program Completion**

All degree or diploma requirements must be completed within 10 years after acceptance into the Dhillon School of Business.

All Certificates in Management and Post-Bachelor Certificate requirements must be completed within five years after acceptance into the Dhillon School of Business.

**h. Liberal Education List Requirement**

See **School of Liberal Education, Liberal Education List Requirement (p. 81)**.

**9. INSTITUTIONAL HONOURS****a. Dean's Honour List**

Students with outstanding academic performance are recognized on the Dean's Honour List. The list is compiled twice yearly at the end of each of the fall and spring terms. There are two ways to qualify for the Dean's Honour List:

1. Students completing four or more graded courses (12.0 credit hours or more) in one term must achieve a GPA of 3.75 or higher on these courses; or
2. Students completing fewer than four graded courses (12.0 credit hours) in one term must achieve a GPA of 3.75 or higher on these courses AND must have a cumulative University of Lethbridge GPA of 3.75 or higher AND must have completed a minimum of four graded courses at the University, including those completed in the current term.

**b. Standards for Distinction and Great Distinction**

Students who have displayed outstanding academic performance during their undergraduate degree programs are awarded their degrees 'With Distinction' or 'With Great Distinction.'

Students with a graduation GPA of 3.50 to 3.74 are awarded their degree 'With Distinction.' Students with a graduation GPA of 3.75 or higher are awarded their degree 'With Great Distinction.' See **Graduation GPA Calculation (p. 215)** for information on how the graduation GPA is calculated.

**10. BACHELOR OF MANAGEMENT (B.MGT.)**

The Bachelor of Management program is available with the following majors: Accounting; Agricultural Enterprise Management; Computer Science; Economics; Finance; General Management; Human Resource Management and Labour Relations; Indigenous Governance and Business Management; International Management; Marketing; and Political Science.

**Students are strongly recommended to consult program planning materials, and complete certain courses in the recommended terms, to graduate on schedule. These courses vary, depending on the chosen major.**

**a. General Requirements**

1. Successful completion of at least 40 courses (120.0 credit hours) and a GPA that meets Graduation Requirements (see **Graduation, p. 214**).
2. A minimum grade of 'C-' is required in all Dhillon School of Business courses and courses cross-listed with Dhillon School of Business courses; Economics 1010; Economics 1012; Statistics 1770; Writing 1000 or English 1900; and all courses in the major marked with an asterisk (\*) in order to meet degree requirements.
3. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
4. Students must also meet the academic standards, program requirements and graduation requirements according to the regulations set by the Dhillon School of Business, and as outlined in the Calendar.

**b. Core Requirements**

Economics 1010 - Introduction to Microeconomics  
Economics 1012 - Introduction to Macroeconomics  
Management 1500 - Fundamentals of Business

Statistics 1770 - Introduction to Probability and Statistics  
 Marketing 2020 - Marketing  
 Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 2081 - Professional Communications Skills  
 Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Management 3031 - Managing Responsibly in a Global Environment  
 Finance 3040 - Finance  
 Human Resources and Labour Relations 3050 - Human Resource Management  
<sup>1</sup> International Management 3650 - Introduction to International Management  
 Management 4090 - Management Policy and Strategy

**One of:**

Management 3062 - Information Systems and Data Analytics  
<sup>1</sup> Accounting 3171 - Accounting Information Systems and Data Analytics  
 Management 3622 - Visual Analytics

**One of the following with Indigenous content, to meet a Liberal Education List requirement <sup>2</sup>:**

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list  
 Any course from the Indigenous Studies (INDG) subject codes list  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Art History 3152 - Indigenous Art History (Series)  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language  
 Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation  
 Political Science 3215 - Indigenous Peoples and Local Government in Canada

**One of:**

<sup>3</sup> Final grade of 80% or higher in AB high school English Language Arts 30-I (or equivalent 5-credit course)  
<sup>3</sup> Successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))  
 Writing 1000 - Introduction to Academic Writing  
 English 1900 - Introduction to Language and Literature

**Notes**

<sup>1</sup> Students admitted to the Accounting major must complete Accounting 3171 and are not required to complete International Management 3650.

<sup>2</sup> Students admitted to the Indigenous Governance and Business Management major do not have to complete an additional Indigenous content course from the list above because many of these courses are already part of the Indigenous Governance and Business Management major.

<sup>3</sup> Students who meet the writing requirement through the high school grade or the challenge exam will need to substitute a Fine Arts and Humanities elective for Writing 1000 or English 1900.

## II. BACHELOR OF MANAGEMENT (B.MGT.) MAJORS

### a. Accounting

Accounting 3100 - Intermediate Financial Accounting I  
 Accounting 3101 - Intermediate Financial Accounting II  
 Accounting 3130 - Cost Accounting  
 Accounting 3131 - Management Control Systems  
 Accounting 3151 - Introduction to Tax  
 Accounting 3160 - Auditing  
 Accounting 4110 - Advanced Financial Accounting  
 Accounting 4151 - Advanced Tax  
 Accounting 4160 - Accounting Theory  
 Finance 3470 - Corporate Finance  
 Management 3010 - Business Law  
 Economics 3030 - Managerial Economics

**Two of:**

Accounting 3180 - Analyzing Cases in Accounting  
 Accounting 3190 - Not-for-Profit and Public Sector Accounting and Performance Management  
 Accounting 4125/Agricultural Enterprise Management 4125 - Accounting and Agricultural Enterprises  
 Accounting 4130 - Advanced Management Accounting

**One of:**

Mathematics 1010 - Introduction to Calculus  
 Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1510 - Calculus for Management and Social Sciences

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

One 3000 or 4000-level elective

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Four open electives

**Note:** Refer to **Residence Requirement (p. 215)** for the Accounting residence requirement.

*If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.*

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program.

Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**b. Agricultural Enterprise Management**

**This program is suspended for 2022/2023 intake.**

Agricultural Enterprise Management 2600 - Business of Agriculture

Agricultural Enterprise Management 2610 - Legal Aspects of Agriculture

Agricultural Enterprise Management 3475/Finance 3475 - Agricultural Finance and Markets

Agricultural Enterprise Management 3625 - Canadian and World Agriculture

Agricultural Enterprise Management 3635 - International Trade

Agricultural Enterprise Management 4615 - Sustainable Agriculture and Management

Management 2700 - Business Research Methods

Management 3070 - Supply Chain Management and Sustainability

Economics 2350 - Economics of Agricultural Markets I

**One of:**

Agricultural Enterprise Management 3275 - Agricultural Marketing and Sales

Marketing 3240 - Business-to-Business Relationship Sales

**One of:**

Management 3612 - Innovation and Entrepreneurship

Marketing 3806 - Small Business Management

**One of:**

Agricultural Studies 4000 - Seminar in Agricultural Issues

Agricultural Enterprise Management 4125/Accounting 4125 - Accounting and Agricultural Enterprises

Agricultural Enterprise Management 4625 - Issues in Agricultural Business

**One of:**

\*Agricultural Studies 3300 - Modelling of Agricultural Systems

Agricultural Enterprise Management 3485 - Applied Risk Management in Agriculture

Economics 3300 - Agricultural Policy I

Economics 3350 - Economics of Agricultural Markets II

**One of:**

Finance 3441 - Financial Analysis

Human Resources and Labour Relations 3305 - Managing Employee Health and Safety

Management 3622 - Visual Analytics

**Electives:**

Two 3000 or 4000-level electives

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

\*Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

\*Two open electives

\*If *Agricultural Studies 3300* is chosen, students will need to complete one Science elective and three open electives.

**Note:** If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program.

Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**c. Computer Science**

Management 3920 - Project Management

\*Computer Science 1620 - Fundamentals of Programming I

\*Computer Science 1820 - Discrete Structures

\*Computer Science 2610 - Introduction to Digital Systems

\*Computer Science 2620 - Fundamentals of Programming II

\*Computer Science 2720 - Practical Software Development

\*Computer Science 3615 - Computer Architecture

\*Computer Science 3620 - Data Structures and Algorithms

\*Computer Science 3660 - Introduction to Database Systems

\*Computer Science 3720 - Introduction to Software Engineering

\*Computer Science 3740 - Programming Languages

\*Computer Science 3780 - Data Communications and Networking

Mathematics 2000 - Mathematical Concepts

\*Three additional 3000 or 4000-level Computer Science courses offered by the Department of Mathematics and Computer Science, at least one of which must be a regularly offered 4000-level course (excluding Computer Science 4850 - Topics in Computer Science, Computer Science 4980 - Applied Studies, and Computer Science 4990 - Independent Study).

**Electives:**

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Four 3000 or 4000-level electives

\*A minimum grade of 'C-' is required in these courses to meet degree requirements.

**Note:** The Dhillon School of Business has an additional residence requirement of ten 3000 or 4000-level Dhillon School of Business courses; an exception applies to Computer Science majors who can also use 3000 or 4000-level Computer Science courses to meet this requirement.

If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**d. Economics**

\*Economics 2750 - Quantitative Methods in Economics

\*Economics 3012 - Intermediate Macroeconomic Theory

\*Economics 3950 - Econometrics I

**One of:**

\*Economics 3010 - Intermediate Microeconomic Theory

\*Economics 3030 - Managerial Economics

**One of:**

Mathematics 1010 - Introduction to Calculus

Mathematics 1510 - Calculus for Management and Social Sciences

Mathematics 1560 - Calculus I

**One of:**

\*Economics 2900 - Economics and Business Statistics

\*Statistics 2780 - Statistical Inference

\*Four Economics courses, three of which must be at the 3000 or 4000 level

**Electives:**

Three 3000 or 4000-level Dhillon School of Business electives

Four 3000 or 4000-level electives

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Three open electives

**Notes**

\*A minimum grade of 'C-' is required in these courses to meet degree requirements.

The Dhillon School of Business has an additional residence requirement of ten 3000 or 4000-level Dhillon School of Business courses; an exception applies to Economics majors who can also use 3000 or 4000-level Economics courses to meet this requirement.

If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**e. Finance**

Finance 3412 - Fundamentals of Investments  
 Finance 3470 - Corporate Finance  
 Finance 4430 - Financial Management  
 Economics 3030 - Managerial Economics  
 Mathematics 1510 - Calculus for Management and Social Sciences

**One of:**

Finance 4421 - Financial Institutions and Markets  
 Finance 4451 - Derivative Securities Markets

**Three of:**

Finance 3406 - Entrepreneurial Finance  
 Finance 3441 - Financial Analysis  
 Finance 3460 - Global Financial Management  
 Finance 3475/Agricultural Enterprise Management 3475 - Agricultural Finance and Markets  
 Finance 3480 - Personal Finance  
 Finance 3490 - FinTech  
 Finance 4421 - Financial Institutions and Markets  
 Finance 4451 - Derivative Securities Markets  
 Finance 4460 - Trading and Portfolio Management  
 Finance 4470 and Finance 4471 - Student Managed Investment Fund

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

Six 3000 or 4000-level electives

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Four open electives

**Note:** Refer to **Residence Requirement (p. 215)** for the Finance residence requirement.

*If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.*

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**f. General Management**

Management 2700 - Business Research Methods  
 Six 3000 or 4000-level Dhillon School of Business courses

**Electives:**

Seven 3000 or 4000-level electives

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Four open electives

**Note:** *If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.*

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**g. Human Resource Management and Labour Relations**

Human Resources and Labour Relations 3305 - Managing Employee Health and Safety  
 Human Resources and Labour Relations 3310 - Collective Labour Relations  
 Human Resources and Labour Relations 3312 - Strategic Compensation  
 Human Resources and Labour Relations 4305 - Canadian Labour and Employment Law  
 Human Resources and Labour Relations 4310 - Advanced Organizational Behaviour  
 Human Resources and Labour Relations 4350 - Staffing  
 Human Resources and Labour Relations 4355 - Training and Development  
 Management 2700 - Business Research Methods

**Two of:**

Human Resources and Labour Relations 3315 - Diversity in Employment  
 Human Resources and Labour Relations 4315 - Performance Management  
 Human Resources and Labour Relations 4330 - The Art of Negotiations and Bargaining  
 Human Resources and Labour Relations 4370 - Leadership in Organizations  
 Human Resources and Labour Relations 4390 - Leading Organizational Change  
 Management 3920 - Project Management

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

Five 3000 or 4000-level electives

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

One Science elective chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Three open electives

**Note:** If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**h. Indigenous Governance and Business Management**

Indigenous Governance and Business Management 2500 - Introduction to Indigenous Governance and Business Management  
 Indigenous Governance and Business Management 3250/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities

Indigenous Governance and Business Management 3515/Indigenous Studies 3515 - Canadian Indigenous Negotiations

Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management

Indigenous Governance and Business Management 4570/Indigenous Studies 4570 - Indigenous Leadership and Management

<sup>1</sup> Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

<sup>1</sup> Indigenous Studies 2100 - Indigenous Peoples and Law

**One of the following Streams (a. or b.):****a. Governance**

Indigenous Governance and Business Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance

Indigenous Governance and Business Management 4120/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

**Three of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources

Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)

Indigenous Governance and Business Management 4150/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments

<sup>1</sup> Economics 3800 - Economic Development

<sup>2</sup> Political Science 3215 - Indigenous Peoples and Local Government in Canada

Any offering in Indigenous Governance and Business Management 3850, Indigenous Governance and Business Management 4850, <sup>1</sup>Indigenous Studies 3850 or <sup>1</sup>Indigenous Studies 4850 with an emphasis on Indigenous Governance or Indigenous Law

**b. Business Management**

Indigenous Governance and Business Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

Indigenous Governance and Business Management 4501/Indigenous Studies 4501 - Canadian Indigenous Tax Issues

**Three of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources

Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)

Management 3070 - Supply Chain Management and Sustainability

Marketing 3225 - Brand Management

Marketing 3230 - Retailing Management

Marketing 3862 - Digital Marketing

Any offering in Indigenous Governance and Business Management 3850 or Indigenous Governance and Business Management 4850 with an emphasis on Indigenous Business Management

**Electives:**

- <sup>3</sup>Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see School of Liberal Education, **Liberal Education List Requirement, p. 81**)

Nine open electives

**Notes**

<sup>1</sup>A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>2</sup>Students should be aware that this course has prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor. A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>3</sup>Cannot be ABHL, ACCT, ADCS, AGEM, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, INDG, MGT, MKTG, NURS, PUBH, or TREC courses, due to Liberal Education limitations.

**Note:** The Dhillon School of Business has an additional residence requirement of ten 3000 or 4000-level Dhillon School of Business courses; an exception applies to Indigenous Governance and Business Management majors who can also use 3000 or 4000-level Indigenous Studies courses to meet this requirement.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**i. International Management**

International Management 3640 - Cross-Cultural Management Practices

International Management 4650 - Integrated Trade and Supply Chain Management

**Four of (Global Strategy):**

Agricultural Enterprise Management 3635 - International Trade

Finance 3460 - Global Financial Management

International Management 3225/Geography 3225 - Industrial Location and Globalization of Enterprise

International Management 3606 - Business in Emerging Markets

<sup>1</sup>International Management 3685 - Issues in International Management (Series)

International Management 3860 - Law and Institutions of International Trade

Management 3070 - Supply Chain Management and Sustainability

Management 4580 - Environmental Management

<sup>2</sup>Economics 4590 - Economics of Globalization

**Two of (Cultural Context):**

International Management 3170/Political Science 3170 - The Politics of Canadian Trade Policy

International Management 3665 - Leading in the Globalized Environment

<sup>1</sup>International Management 3815 - Regional Aspects of International Management (Series)

<sup>1</sup>International Management 4640 - Cross-Cultural Work Study (Series)

Marketing 4220 - Cross-Cultural Marketing

<sup>3</sup>Political Science 2110 - International Relations

**One of:**

Geography 1200 - Introduction to Human Geography

Geography 2000 - World Regional Geography

**One Exchange Term <sup>4</sup>:**

Two 3000 or 4000-level Dhillon School of Business courses

Two electives

**Language Requirement <sup>5</sup>:**

In addition to completing an international exchange term as part of the major, students in the International Management major must complete three language courses (9.0 credit hours) in one of the following languages: French, Japanese, or Spanish.

**Electives:**

One 3000 or 4000-level Dhillon School of Business elective

Three 3000 or 4000-level electives

Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

**Notes**

<sup>1</sup>International Management 3685, International Management 3815, and International Management 4640 are Series courses. Students may take up to two of each Series course, but not exceed four Series courses, in total.

<sup>2</sup>A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>3</sup>Students should be aware that these courses have prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor. A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>4</sup>Students are required to study at an international university for one term. The exchange courses are part of the 40 courses required for the Bachelor of Management degree.

Students participating in a European exchange must complete a minimum of courses equivalent to 24.0 credits under the European Credit Transfer Accumulation System (ECTS). Course credits completed at an international university may vary from the University of Lethbridge credit system.

<sup>5</sup>All language courses completed prior to the exchange must have a minimum grade of 'C-'. In general, a student may not select their native language as the language of study

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**j. Marketing**

Marketing 3210 - Consumer Behaviour

Marketing 3215 - Introduction to Marketing Communications and Social Media

Marketing 3220 - Marketing Research

Marketing 4230 - Marketing Management

Economics 3030 - Managerial Economics

Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception

Sociology 1000 - Introduction to Sociology

**One of:**

Psychology 2330 - Learning and Cognition

Psychology 2700 - Behaviour and Evolution

Sociology 2300 - Committing Sociology

Sociology 2410 - Sociology of Gender

Sociology 2600 - The Individual and Society

Sociology 2700/Health Sciences 2700 - Health and Society

Sociology 3220 - Contemporary Sociological Theory

Sociology 3420 - Sociology of Work

**One of:**

Economics 2900 - Economics and Business Statistics

Statistics 2780 - Statistical Inference

**Four of:**

Marketing 3205 - Sports Marketing

Marketing 3225 - Brand Management

Marketing 3230 - Retailing Management

Marketing 3240 - Business-to-Business Relationship Sales

Marketing 3250 - Social Marketing

Marketing 3260 - Not-for-Profit Marketing

Marketing 3280 - Services Marketing Management

Marketing 3290 - Marketing and Society

Marketing 3806 - Small Business Management

Marketing 3862 - Digital Marketing

Marketing 4215 - Advanced Marketing Communications and Social Media

Marketing 4220 - Cross-Cultural Marketing

**Electives:**

Five 3000 or 4000-level electives

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Two open electives

**Marketing Concentrations**

If students wish to further specialize within the field of Marketing, they may choose a concentration in Marketing Communications or Socially Responsible Marketing. Concentrations are not required. Students who choose a concentration will replace the 'Four of' requirement above with the courses in the chosen concentration, listed below.

**1. Marketing Communications Concentration**

Marketing 3862 - Digital Marketing

Marketing 4215 - Advanced Marketing Communications and Social Media

**Two of:**

Management 3980 - Applied Studies/Field Experience I (with a marketing communications focus)

Management 3990 - Independent Study (with a marketing communications focus)

Marketing 3225 - Brand Management

<sup>1</sup> New Media 2005 - Design Fundamentals for New Media

<sup>1</sup> New Media 2010 - Visual Communications for New Media

New Media 3250 - Media, Advertising, and Consumer Culture

New Media 3700 - Event and Exhibition Design

**2. Socially Responsible Marketing Concentration****Two of:**

<sup>2</sup> Marketing 3250 - Social Marketing

<sup>2</sup> Marketing 3260 - Not-for-Profit Marketing

<sup>2</sup> Marketing 3290 - Marketing and Society



**Two of:**

- International Management 3552 - Sustainable Tourism
- <sup>3</sup>International Management 4640 - Cross-Cultural Work Study (Series)
- Management 3710 - Managing Not-for-Profit Organizations
- Management 3980 - Applied Studies/Field Experience I (with a not-for-profit organization)
- Management 4580 - Environmental Management
- <sup>2</sup>Marketing 3250 - Social Marketing
- <sup>2</sup>Marketing 3260 - Not-for-Profit Marketing
- <sup>2</sup>Marketing 3290 - Marketing and Society
- New Media 3250 - Media, Advertising, and Consumer Culture

<sup>1</sup>Students should be aware that these courses have prerequisites which may require taking courses extra to their minimum degree requirements. Students are strongly advised to discuss their program with an academic advisor early in their program.

<sup>2</sup>Students cannot use Marketing 3250, Marketing 3260, and Marketing 3290 to fulfill requirements from both "Two of:" lists.

<sup>3</sup>The work study placement must have a primary focus on social responsibility, social marketing, or it must be housed within a non-for-profit organization in order to receive credit for the Socially Responsible Marketing Concentration.

**Note:** If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**k. Political Science**

- Management 2700 - Business Research Methods
- Political Science 1000 - Introduction to Political Science
- Political Science 2210 - Canadian Politics and Government

\*Seven Political Science courses, four of which must be at the 3000 or 4000-level

**Electives:**

- Three 3000 or 4000-level Dhillon School of Business electives
- Four 3000 or 4000-level electives

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

One open elective

\*A minimum grade of 'C-' is required in these courses to meet degree requirements.

**Note:** The Dhillon School of Business has an additional residence requirement of ten 3000 or 4000-level Dhillon School of Business courses; an exception applies to Political Science majors who can also use 3000 or 4000-level Political Science courses to meet this requirement.

If the 'Indigenous content' elective does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will need to be added to the program requirements in order to meet the Liberal Education requirement.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**12. POST-DIPLOMA BACHELOR OF MANAGEMENT**

Students who are admitted to the Post-Diploma Bachelor of Management program cannot receive credit for courses at the University of Lethbridge for which they have equivalent credit in their diplomas. Substitute courses will be assigned by the Dhillon School of Business to replace any courses for which they have equivalent credit. Substitute courses must be approved by the Dhillon School of Business. Diploma courses that satisfy Post-Diploma Bachelor of Management course requirements must meet the minimum grade requirement as outlined in Post-Diploma General Requirements. Courses may also have a minimum grade requirement for prerequisite purposes. This is outlined in the course prerequisites (see **Course Catalogue, p. 343**). Students should consult with an academic advisor and see [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for information on specific diplomas.

The Post-Diploma program is available in the following majors: Accounting; Finance; General Management; Human Resource Management and Labour Relations; Indigenous Governance and Business Management, International Management; and Marketing.

**a. General Requirements**

1. Successful completion of at least 20 courses (60.0 credit hours) and a GPA that meets Graduation Requirements (see **Graduation, p. 214**). In some cases, where a diploma does not provide the appropriate background for the major chosen, students will be assigned extra courses.
2. A minimum grade of 'C-' is required in all Dhillon School of Business courses and courses cross-listed with Dhillon School of Business courses; Economics 1010; Economics 1012; Statistics 1770; Writing 1000 or English 1900; and all courses in the major marked with an asterisk (\*) in order to meet degree requirements. Students who take Economics 1010 and/or Economics 1012 as part of their degree requirements must achieve a minimum grade of 'C-'.

3. Completion of a Modified Liberal Education List Requirement consisting of four courses (12.0 credit hours) from List I, two courses (6.0 credit hours) from each of List II and List III, and two additional courses (6.0 credit hours) from any list.
4. Students must also meet the academic standards, program requirements, and graduation requirements according to the regulations set by the Dhillon School of Business, and as outlined in the Calendar.

**b. Core Requirements**

Statistics 1770 - Introduction to Probability and Statistics  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 3031 - Managing Responsibly in a Global Environment  
 Human Resources and Labour Relations 3050 - Human Resource Management  
<sup>1</sup> International Management 3650 - Introduction to International Management  
 Management 4090 - Management Policy and Strategy

**One of:**

Management 3062 - Information Systems and Data Analytics  
<sup>1</sup> Accounting 3171 - Accounting Information Systems and Data Analytics  
 Management 3622 - Visual Analytics

**One of the following with Indigenous content, to meet a Liberal Education List requirement <sup>2</sup>:**

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list  
 Any course from the Indigenous Studies (INDG) subject codes list  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Art History 3152 - Indigenous Art History (Series)  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language  
 Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation  
 Political Science 3215 - Indigenous Peoples and Local Government in Canada

**One of:**

<sup>3</sup> Final grade of 80% or higher in AB high school English Language Arts 30-I (or equivalent 5-credit course)  
<sup>3</sup> Successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))  
 Writing 1000 - Introduction to Academic Writing  
 English 1900 - Introduction to Language and Literature

**Notes**

<sup>1</sup> Students admitted to the Accounting major must complete Accounting 3171 and are not required to complete International Management 3650.

<sup>2</sup> When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation otherwise students (with the exception of Intentional Management majors) will have an extra course to complete to meet program requirements.

<sup>3</sup> Students who meet the writing requirement through the high school grade or the challenge exam will need to substitute a Fine Arts and Humanities elective for Writing 1000 or English 1900.

### 13. POST-DIPLOMA BACHELOR OF MANAGEMENT MAJORS

**a. Accounting**

Accounting 3131 - Management Control Systems  
 Accounting 3151 - Introduction to Tax  
 Accounting 3160 - Auditing  
 Accounting 3180 - Analyzing Cases in Accounting  
 Accounting 4110 - Advanced Financial Accounting  
 Accounting 4160 - Accounting Theory  
 Economics 3030 - Managerial Economics

**One of:**

Accounting 3101 - Intermediate Financial Accounting II  
 Accounting 3190 - Not-for-Profit and Public Sector Accounting and Performance Management  
 Accounting 4125/Agricultural Enterprise Management 4125 - Accounting and Agricultural Enterprises  
 Accounting 4130 - Advanced Management Accounting  
 Accounting 4151 - Advanced Tax  
 Finance 3470 - Corporate Finance

**One of:**

Mathematics 1010 - Introduction to Calculus  
 Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1510 - Calculus for Management and Social Sciences

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

**Note:** Refer to **Residence Requirement (p. 215)** for the Accounting residence requirement.

*When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation otherwise students will have an extra course to complete to meet program requirements.*

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**b. Finance**

Finance 3412 - Fundamentals of Investments  
 Finance 3470 - Corporate Finance  
 Finance 4430 - Financial Management  
 Economics 3030 - Managerial Economics  
 Mathematics 1510 - Calculus for Management and Social Sciences

**One of:**

Finance 4421 - Financial Institutions and Markets  
 Finance 4451 - Derivative Securities Markets

**Two of:**

Finance 3406 - Entrepreneurial Finance  
 Finance 3441 - Financial Analysis  
 Finance 3460 - Global Financial Management  
 Finance 3475/Agricultural Enterprise Management 3475 - Agricultural Finance and Markets  
 Finance 3480 - Personal Finance  
 Finance 3490 - FinTech  
 Finance 4421 - Financial Institutions and Markets  
 Finance 4451 - Derivative Securities Markets  
 Finance 4460 - Trading and Portfolio Management  
 Finance 4470 and Finance 4471 - Student Managed Investment Fund

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

**Note:** Refer to **Residence Requirement (p. 215)** for the Finance residence requirement.

*When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation otherwise students will have an extra course to complete to meet program requirements.*

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**c. General Management**

Management 2700 - Business Research Methods  
 Five 3000 or 4000 level Dhillon School of Business courses

**Electives:**

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

One elective chosen from any list of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

Two open electives

**Note:** *When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation otherwise students will have an extra course to complete to meet program requirements.*

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**d. Human Resource Management and Labour Relations**

Human Resources and Labour Relations 3305 - Managing Employee Health and Safety  
 Human Resources and Labour Relations 3310 - Collective Labour Relations  
 Human Resources and Labour Relations 3312 - Strategic Compensation  
 Human Resources and Labour Relations 4305 - Canadian Labour and Employment Law  
 Human Resources and Labour Relations 4310 - Advanced Organizational Behaviour  
 Human Resources and Labour Relations 4350 - Staffing  
 Human Resources and Labour Relations 4355 - Training and Development  
 Management 2700 - Business Research Methods

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

**Note:** When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation otherwise students will have an extra course to complete to meet program requirements.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**e. Indigenous Governance and Business Management**

Indigenous Governance and Business Management 2500 - Introduction to Indigenous Governance and Business Management  
 Indigenous Governance and Business Management 3515/Indigenous Studies 3515 - Canadian Indigenous Negotiations  
 Indigenous Governance and Business Management 4570/Indigenous Studies 4570 - Indigenous Leadership and Management

<sup>1</sup> Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

<sup>1</sup> Indigenous Studies 2100 - Indigenous Peoples and Law

**One of the following Streams (a. or b.):****a. Governance**

Indigenous Governance and Business Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance  
 Indigenous Governance and Business Management 4120/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

**Three of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources  
 Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management  
 Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)  
 Indigenous Governance and Business Management 4150/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments  
<sup>1</sup> Economics 3800 - Economic Development  
<sup>2</sup> Political Science 3215 - Indigenous Peoples and Local Government in Canada  
 Any offering in Indigenous Governance and Business Management 3850, Indigenous Governance and Business Management 4850, <sup>1</sup>Indigenous Studies 3850 or <sup>1</sup>Indigenous Studies 4850 with an emphasis on Indigenous Governance or Indigenous Law

**b. Business Management**

Indigenous Governance and Business Management 3250/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities  
 Indigenous Governance and Business Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

**Three of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources  
 Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management  
 Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)  
 Indigenous Governance and Business Management 4501/Indigenous Studies 4501 - Canadian Indigenous Tax Issues  
 Management 3070 - Supply Chain Management and Sustainability  
 Marketing 3225 - Brand Management  
 Marketing 3230 - Retailing Management

Marketing 3862 - Digital Marketing

Any offering in Indigenous Governance and Business Management 3850 or Indigenous Governance and Business Management 4850 with an emphasis on Indigenous Business Management

### Electives:

- <sup>3</sup> Two electives which may be needed to ensure completion of the Liberal Education List Requirement (see School of Liberal Education, **Liberal Education List Requirement, p. 81**)

### Notes

<sup>1</sup> A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>2</sup> Students should be aware that this course has prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor. A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>3</sup> Cannot be ABHL, ACCT, ADCS, AGEM, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, INDG, MGT, MKTG, NURS, PUBH, or TREC courses, due to Liberal Education limitations.

### Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

## f. International Management

International Management 3640 - Cross-Cultural Management Practices

International Management 4650 - Integrated Trade and Supply Chain Management

### Two of (Global Strategy):

Agricultural Enterprise Management 3635 - International Trade

Finance 3460 - Global Financial Management

International Management 3225/Geography 3225 - Industrial Location and Globalization of Enterprise

International Management 3606 - Business in Emerging Markets

<sup>1</sup> International Management 3685 - Issues in International Management (Series)

International Management 3860 - Law and Institutions of International Trade

Management 3070 - Supply Chain Management and Sustainability

Management 4580 - Environmental Management

<sup>2</sup> Economics 4590 - Economics of Globalization

### One of (Cultural Context):

International Management 3170/Political Science 3170 - The Politics of Canadian Trade Policy

International Management 3665 - Leading in the Globalized Environment

<sup>1</sup> International Management 3815 - Regional Aspects of International Management (Series)

<sup>1</sup> International Management 4640 - Cross-Cultural Work Study (Series)

Marketing 4220 - Cross-Cultural Marketing

<sup>3</sup> Political Science 2110 - International Relations

### One Exchange Term <sup>4</sup>:

Two 3000 or 4000-level Management courses

One open elective

One language course chosen to meet the Language Requirement

### Language Requirement <sup>5</sup>:

In addition to completing an international exchange term as part of the major, students in the International Management major must complete three language courses (9.0 credit hours) in one of the following languages: French, Japanese, or Spanish. Students must complete one language course while on their exchange term, and two language courses at the University of Lethbridge. Advisors will help students when exchange partners do not offer language course options with sufficient credits, as an extra University of Lethbridge language course may be required.

### Notes

<sup>1</sup> International Management 3685, International Management 3815, and International Management 4640 are Series courses. Students may take up to two of each Series course, but not exceed four Series courses, in total.

<sup>2</sup> A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>3</sup> Students should be aware that these courses have prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor. A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>4</sup> Students are required to study at an international university for one term. The exchange courses are part of the 20 courses required for the Post-Diploma Bachelor of Management degree.

Students participating in a European exchange must complete a minimum of courses equivalent to 24.0 credits under the European Credit Transfer Accumulation System (ECTS). Course credits completed at an international university may vary from the University of Lethbridge credit system.

<sup>5</sup> All language courses completed prior to the exchange must have a minimum grade of 'C-'. In general, a student may not select their native language as the language of study.

### Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**g. Marketing**

Marketing 3210 - Consumer Behaviour  
 Marketing 3215 - Introduction to Marketing Communications and Social Media  
 Marketing 3220 - Marketing Research  
 Marketing 4230 - Marketing Management  
 Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception  
 Sociology 1000 - Introduction to Sociology

**Two of:**

Marketing 3205 - Sports Marketing  
 Marketing 3225 - Brand Management  
 Marketing 3230 - Retailing Management  
 Marketing 3240 - Business-to-Business Relationship Sales  
 Marketing 3250 - Social Marketing  
 Marketing 3260 - Not-for-Profit Marketing  
 Marketing 3280 - Services Marketing Management  
 Marketing 3290 - Marketing and Society  
 Marketing 3806 - Small Business Management  
 Marketing 3862 - Digital Marketing  
 Marketing 4215 - Advanced Marketing Communications and Social Media  
 Marketing 4220 - Cross-Cultural Marketing

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see School of Liberal Education, **Liberal Education List Requirement, p. 81**)

**Marketing Concentrations**

If students wish to further specialize within the field of Marketing, they may choose a concentration in Marketing Communications or Socially Responsible Marketing. Concentrations are not required. Students who choose a concentration will replace the 'Two of' requirement above with the courses in the chosen concentration, listed below. Note that completing a concentration may require a student to complete extra courses.

**1. Marketing Communications Concentration**

Marketing 3862 - Digital Marketing  
 Marketing 4215 - Advanced Marketing Communications and Social Media

**Two of:**

Management 3980 - Applied Studies/Field Experience I (with a marketing communications focus)  
 Management 3990 - Independent Study (with a marketing communications focus)  
 Marketing 3225 - Brand Management  
<sup>1</sup>New Media 2005 - Design Fundamentals for New Media  
<sup>1</sup>New Media 2010 - Visual Communications for New Media  
 New Media 3250 - Media, Advertising, and Consumer Culture  
 New Media 3700 - Event and Exhibition Design

**2. Socially Responsible Marketing Concentration****Two of:**

<sup>2</sup>Marketing 3250 - Social Marketing  
<sup>2</sup>Marketing 3260 - Not-for-Profit Marketing  
<sup>2</sup>Marketing 3290 - Marketing and Society

**Two of:**

International Management 3552 - Sustainable Tourism  
<sup>3</sup>International Management 4640 - Cross-Cultural Work Study (Series)  
 Management 3710 - Managing Not-for-Profit Organizations  
 Management 3980 - Applied Studies/Field Experience I (with a not-for-profit organization)  
 Management 4580 - Environmental Management  
<sup>2</sup>Marketing 3250 - Social Marketing  
<sup>2</sup>Marketing 3260 - Not-for-Profit Marketing  
<sup>2</sup>Marketing 3290 - Marketing and Society  
 New Media 3250 - Media, Advertising, and Consumer Culture

<sup>1</sup>Students should be aware that these courses have prerequisites which may require taking courses extra to their minimum degree requirements. Students are strongly advised to discuss their program with an academic advisor early in their program.

<sup>2</sup>Students cannot use Marketing 3250, Marketing 3260, and Marketing 3290 to fulfill requirements from both "Two of:" lists.

<sup>3</sup>The work study placement must have a primary focus on social responsibility, social marketing, or it must be housed within a non-for-profit organization in order to receive credit for the Socially Responsible Marketing Concentration.

**Note:** When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation otherwise students will have an extra course to complete to meet program requirements.

### Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

## 14. POST-DIPLOMA BACHELOR OF MANAGEMENT (25-COURSE)

Students who are admitted to the Post-Diploma Bachelor of Management (25-course) program cannot receive credit for courses at the University of Lethbridge for which they have equivalent credit in their diplomas. Substitute courses will be assigned by the Dhillon School of Business to replace any courses for which they have equivalent credit. Substitute courses must be approved by the Dhillon School of Business. Diploma courses that satisfy Post-Diploma Bachelor of Management (25-course) course requirements must meet the minimum grade requirement as outlined in Post-Diploma General Requirements (25-course). Courses may also have a minimum grade requirement for prerequisite purposes. This is outlined in the course prerequisites (see **Course Catalogue, p. 343**). Students should consult with an academic advisor and see [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for information on specific diplomas.

The Post-Diploma (25-course) program requirements are specified for the General Management major only. After admission, students may choose to complete a different Management major in the Post-Diploma (25-course) Program. If students choose a different Management major, they may be required to extend their programs beyond 25 courses (see **Post-Diploma Bachelor of Management Majors, p. 225**, for all Management major requirements).

### a. General Requirements

1. Successful completion of at least 25 courses (75.0 credit hours) with a GPA that meets Graduation Requirements (see **Graduation, p. 214**). In some cases, where a diploma does not provide the appropriate background for the major chosen, students will be assigned extra courses.
2. A minimum grade of 'C-' is required in all Dhillon School of Business courses and courses cross-listed with Dhillon School of Business courses; Economics 1010; Economics 1012; Statistics 1770; Writing 1000 or English 1900; and all courses in the major marked with an asterisk (\*) in order to meet degree requirements.
3. Completion of the Modified Liberal Education List Requirement consisting of four courses (12.0 credit hours) from List I, two courses (6.0 credit hours) from each of List II and List III, and two additional courses (6.0 credit hours) from any list.
4. Students must also meet the academic standards, program requirements, and graduation requirements according to the regulations set by the Dhillon School of Business, and as outlined in the Calendar.

### b. Program Requirements

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Management 1500 - Fundamentals of Business  
 Statistics 1770 - Introduction to Probability and Statistics  
 Marketing 2020 - Marketing  
 Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 2081 - Professional Communications Skills  
 Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Management 2700 - Business Research Methods  
 Management 3031 - Managing Responsibly in a Global Environment  
 Finance 3040 - Finance  
 Human Resources and Labour Relations 3050 - Human Resource Management  
<sup>1</sup>International Management 3650 - Introduction to International Management  
 Management 4090 - Management Policy and Strategy

#### One of:

Management 3062 - Information Systems and Data Analytics  
<sup>1</sup>Accounting 3171 - Accounting Information Systems and Data Analytics  
 Management 3622 - Visual Analytics

#### One of the following with Indigenous content, to meet a Liberal Education List requirement<sup>2</sup>:

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list  
 Any course from the Indigenous Studies (INDG) subject codes list  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Art History 3152 - Indigenous Art History (Series)  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language  
 Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation  
 Political Science 3215 - Indigenous Peoples and Local Government in Canada

**One of:**

<sup>3</sup> Final grade of 80% or higher in AB high school English Language Arts 30-I (or equivalent 5-credit course)

<sup>3</sup> Successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))

Writing 1000 - Introduction to Academic Writing

English 1900 - Introduction to Language and Literature

Two 3000 or 4000-level Dhillon School of Business courses

**Electives:**

Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**)

<sup>2</sup> Two open electives

**Notes**

<sup>1</sup> Students who change their program to the Accounting major after admission must complete Accounting 3171 and are not required to complete International Management 3650.

<sup>2</sup> When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation assigned to it. Otherwise, an 'open' elective may need to be used to meet the Fine Arts and Humanities Liberal Education List Requirement.

<sup>3</sup> Students who meet the writing requirement through the high school grade or the challenge exam will need to substitute a Fine Arts and Humanities elective for Writing 1000 or English 1900.

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**15. BACHELOR OF MANAGEMENT AS A SECOND DEGREE**

Second degree programs consist of the following:

- Core requirements, which include specific Dhillon School of Business and Arts and Science courses, and
- Specific Dhillon School of Business and Arts and Science courses, which are required for the chosen major.

A minimum of 15 courses, including 10 3000 or 4000-level Dhillon School of Business courses, must be completed at the University of Lethbridge, extra to the first degree, in order to satisfy the residence requirement. Second degree programs will be developed individually and will be a maximum of 25 courses in length. Courses completed as part of a first degree may be used to waive course requirements in the B.Mgt. as a second degree. Such waivers will be decided at the time of admission by the Advising and Academic Support Office in the Dhillon School of Business. Course materials requested for further assessment must be submitted to the Dhillon School of Business Advising Office by the last day of the student's first term. Any request for reassessment of course waivers must also be made by the last day of the student's first term. Please refer to **Academic Schedule (p. 15)** to determine the last day of the term.

Students who change to another major after admission will need to have their program reassessed and may be required to complete additional courses for the new major.

**16. DOUBLE MAJORS**

Students completing the Bachelor of Management, Post-Diploma Bachelor of Management, Bachelor of Management as a Second Degree and Combined Bachelor of Arts/Bachelor of Management and Bachelor of Science/Bachelor of Management programs may declare and complete two established majors for their program.

**Admission Requirements**

Students interested in a second major should begin their studies in a single major and apply for the second major at a later date. In addition to the admission requirements for the second major (see **Admission, p. 210**), students must also meet the following requirement in order to be approved for the declaration of a second major:

- Students must take one Dhillon School of Business course in their desired second major (does not include core courses) at the University of Lethbridge, with a minimum grade of 'B'. Students adding one of the non-management majors (i.e. Computer Science, Economics, or Political Science) must take one of their respective major courses CPSC, ECON, or POLI with a minimum grade of 'B'.

Double majors can only be formed by successfully completing all requirements for both established single disciplinary majors.

General Management majors are ineligible for double major designation. Because all other possible combinations of single disciplinary majors are eligible for double major designation by a student, the School cannot guarantee that course sequencing and timetables will accommodate all double major combinations within eight consecutive regular terms. Substitutions will not be made when there are time conflicts for courses between the majors.

The School will allow double counting of courses between majors. Students choosing to complete two majors may need to complete more than the minimum 40 courses for the degree depending on the choice of majors.

Students who have completed the requirements for two majors at the time of graduation without having previously declared a second major may still apply to convocate with both majors.

Interested students are encouraged to consult with Dhillon School of Business academic advisors.



## 17. COMBINED DEGREES

There are Combined Degrees leading to the degrees B.A./B.Mgt., B.Sc./B.Mgt., B.F.A. - New Media/B.Mgt., B.H.Sc./B.Mgt., B.Mgt./B.Ed. and Post-Diploma B.Mgt./B.Ed. Upon successful completion of the program, the student receives the degree B.A. or B.Sc. from the Faculty of Arts and Science or the degree B.Ed. (Career and Technology Studies (CTS): Business Focus) from the Faculty of Education or the degree B.F.A. - New Media from the Faculty of Fine Arts or the degree B.H.Sc. from the Faculty of Health Sciences, and the degree B.Mgt. from the Dhillon School of Business. Both degrees are granted when the entire program is completed. Persons already holding baccalaureate degrees are not eligible for these programs.

For further information, please refer to **Combined Degrees (p. 243)**.

## 18. FINANCE DIPLOMA

The Dhillon School of Business offers a Finance Diploma.

**Students are strongly recommended to consult program planning materials, and complete certain courses in the recommended terms, to graduate on schedule. These courses vary, depending on the chosen campus, please see an advisor.**

### a. General Requirements

1. Successful completion of at least 20 courses (60.0 credit hours) and a GPA that meets Graduation Requirements (see **Graduation, p. 214**).
2. A minimum grade of 'C-' is required in all Dhillon School of Business courses and courses cross-listed with Dhillon School of Business courses; Economics 1010; Economics 1012; Statistics 1770; and all courses in the major marked with an asterisk (\*) in order to meet degree requirements.
3. Students must also meet the academic standards, program requirements, and graduation requirements according to the regulations set by the Dhillon School of Business, and as outlined in the Calendar.

### b. Requirements (20 courses)

Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Finance 3040 - Finance  
 Finance 3412 - Fundamentals of Investments  
 Finance 3470 - Corporate Finance  
 Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Human Resources and Labour Relations 3050 - Human Resource Management  
 Management 1500 - Fundamentals of Business  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 3062 - Information Systems and Data Analytics  
 Marketing 2020 - Marketing  
 Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Statistics 1770 - Introduction to Probability and Statistics

#### One of:

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

#### Four of:

Finance 3406 - Entrepreneurial Finance  
 Finance 3441 - Financial Analysis  
 Finance 3460 - Global Financial Management  
 Finance 3475/Agricultural Enterprise Management 3475 - Agricultural Finance and Markets  
 Finance 3480 - Personal Finance  
 Finance 3490 - FinTech  
 Finance 4421 - Financial Institutions and Markets  
 Finance 4430 - Financial Management  
 Finance 4451 - Derivative Securities Markets  
 Finance 4460 - Trading and Portfolio Management  
 Finance 4470 and Finance 4471 - Student Managed Investment Fund

#### One of the following with Indigenous content and a Fine Arts and Humanities designation:

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list with a Fine Arts and Humanities designation (see **School of Liberal Education, List I: Fine Arts and Humanities Courses, p. 82**)  
 Any course from the Indigenous Studies (INDG) subject codes list  
 Art History 3152 - Indigenous Art History (Series)  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language  
 Liberal Education 1850 - Conversational Indigenous: Reconciling Reconciliation

**Note:** Refer to **Residence Requirement (p. 215)** for the Finance residence requirement.

## 19. CERTIFICATE IN MANAGEMENT

The Dhillon School of Business offers a Certificate in Management program with a focus in Finance; General Management; Human Resource Management and Labour Relations; Indigenous Governance and Business Management, International Management; and Marketing.

Please contact an academic advisor before applying to this program for information on course sequencing and possible waivers for equivalent courses already taken.

The Certificate in Management is composed of a series of 10 required courses designed to provide a suitable combination of breadth and depth of knowledge in a specific area of study. This program is designed to be completed on a part-time studies basis, and many of the certificate courses have prerequisite, corequisite, and/or recommended background requirements that are above and beyond the 10 courses in the program. As a result, completion of this program will take more than one year of study. Please contact an academic advisor before applying to this program to discuss your specific program requirements.

### Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses taken towards a Certificate program.

#### a. Finance Certificate

Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Finance 3040 - Finance  
 Finance 3412 - Fundamentals of Investments  
 Finance 3470 - Corporate Finance  
 Finance 4430 - Financial Management  
 Economics 1010 - Introduction to Microeconomics  
 Statistics 1770 - Introduction to Probability and Statistics

#### One of:

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

#### One of:

Finance 3406 - Entrepreneurial Finance  
 Finance 3441 - Financial Analysis  
 Finance 3460 - Global Financial Management  
 Finance 3475/Agricultural Enterprise Management 3475 - Agricultural Finance and Markets  
 Finance 3480 - Personal Finance  
 Finance 3490 - FinTech  
 Finance 4421 - Financial Institutions and Markets  
 Finance 4451 - Derivative Securities Markets  
 Finance 4460 - Trading and Portfolio Management  
 Finance 4470 and Finance 4471 - Student Managed Investment Fund

**Note:** Refer to **Residence Requirement (p. 215)** for the Finance residence requirement.

#### b. General Management Certificate

Accounting 2100 - Introductory Accounting  
 Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Human Resources and Labour Relations 3050 - Human Resource Management  
 Management 3031 - Managing Responsibly in a Global Environment  
 Management 3062 - Information Systems and Data Analytics  
 Economics 1010 - Introduction to Microeconomics  
 Any four 3000 or 4000-level courses in Dhillon School of Business, which may include either one Management Applied Study or Management Independent Study

#### c. Human Resource Management and Labour Relations Certificate

Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Human Resources and Labour Relations 3050 - Human Resource Management  
 Human Resources and Labour Relations 3305 - Managing Employee Health and Safety  
 Human Resources and Labour Relations 3310 - Collective Labour Relations  
 Human Resources and Labour Relations 3312 - Strategic Compensation  
 Human Resources and Labour Relations 4305 - Canadian Labour and Employment Law  
 Human Resources and Labour Relations 4350 - Staffing  
 Human Resources and Labour Relations 4355 - Training and Development  
 Management 1000 - Introduction to Management  
 Management 2700 - Business Research Methods

**d. Indigenous Governance and Business Management Certificate**

Accounting 2100 - Introductory Accounting

Indigenous Governance and Business Management 2500 - Introduction to Indigenous Governance and Business Management  
Management 1500 - Fundamentals of Business

Management 2081 - Professional Communications Skills

**One of:**

Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour

Human Resources and Labour Relations 3050 - Human Resource Management

Marketing 2020 - Marketing

**Five of:**

Indigenous Governance and Business Management 3250/Indigenous Studies 3250 - Financial Management in Canadian  
Indigenous Communities

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources

Indigenous Governance and Business Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship  
in Canada

Indigenous Governance and Business Management 3515/Indigenous Studies 3515 - Canadian Indigenous Negotiations

Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management

Indigenous Governance and Business Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous  
Governance

Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues  
(Series)

Indigenous Governance and Business Management 4120/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian  
Indigenous Governments

Indigenous Governance and Business Management 4150/Indigenous Studies 4150 - Administrative Aspects of Canadian  
Indigenous Governments

Indigenous Governance and Business Management 4570/Indigenous Studies 4570 - Indigenous Leadership and Management

<sup>1</sup> Political Science 3215 - Indigenous Peoples and Local Government in Canada

**Notes**

<sup>1</sup> Students should be aware that these courses have prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor. A minimum grade of 'C-' is required in these courses to meet degree requirements.

**e. International Management Certificate**

International Management 3640 - Cross-Cultural Management Practices

International Management 3650 - Introduction to International Management

International Management 4650 - Integrated Trade and Supply Chain Management

Management 2070/Economics 2070 - Operations and Quantitative Management

Management 3070 - Supply Chain Management and Sustainability

Economics 1010 - Introduction to Microeconomics

Statistics 1770 - Introduction to Probability and Statistics

**Three of:**

Agricultural Enterprise Management 3635 - International Trade

<sup>1</sup> Finance 3460 - Global Financial Management

<sup>1</sup> International Management 3170/Political Science 3170 - The Politics of Canadian Trade Policy

<sup>1</sup> International Management 3225/Geography 3225 - Industrial Location and Globalization of Enterprise

International Management 3665 - Leading in the Globalized Environment

International Management 3685 - Issues in International Management (Series)

International Management 3815 - Regional Aspects of International Management (Series)

International Management 3860 - Law and Institutions of International Trade

International Management 4640 - Cross-Cultural Work Study (Series)

<sup>1</sup> Marketing 4220 - Cross-Cultural Marketing

<sup>1</sup> Political Science 2110 - International Relations

Economics 4590 - Economics of Globalization

**Notes**

<sup>1</sup> Students should be aware that these courses have prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor.

**f. Marketing Certificate**

Marketing 2020 - Marketing

Marketing 3210 - Consumer Behaviour

Marketing 3215 - Introduction to Marketing Communications and Social Media

Marketing 3220 - Marketing Research

Marketing 4230 - Marketing Management

Economics 1010 - Introduction to Microeconomics

Statistics 1770 - Introduction to Probability and Statistics

**Three of:**

Management 2081 - Professional Communications Skills  
 Marketing 3205 - Sports Marketing  
 Marketing 3225 - Brand Management  
 Marketing 3230 - Retailing Management  
 Marketing 3240 - Business-to-Business Relationship Sales  
 Marketing 3250 - Social Marketing  
 Marketing 3260 - Not-for-Profit Marketing  
 Marketing 3280 - Services Marketing Management  
 Marketing 3290 - Marketing and Society  
 Marketing 3806 - Small Business Management  
 Marketing 3862 - Digital Marketing  
 Marketing 4215 - Advanced Marketing Communications and Social Media  
 Marketing 4220 - Cross-Cultural Marketing

**Marketing Concentrations**

If students wish to further specialize within the field of Marketing, they may choose a concentration in Marketing Communications or Socially Responsible Marketing. Concentrations are not required. Students who choose a concentration will replace the 'Three of' requirement above with the courses in the chosen concentration, listed below. Note that completing a concentration may require a student to complete extra courses.

**1. Marketing Communications Concentration**

Marketing 3862 - Digital Marketing  
 Marketing 4215 - Advanced Marketing Communications and Social Media

**Two of:**

Management 3980 - Applied Studies/Field Experience I (with a marketing communications focus)  
 Management 3990 - Independent Study (with a marketing communications focus)  
 Marketing 3225 - Brand Management  
<sup>1</sup>New Media 2005 - Design Fundamentals for New Media  
<sup>1</sup>New Media 2010 - Visual Communications for New Media  
 New Media 3250 - Media, Advertising, and Consumer Culture  
 New Media 3700 - Event and Exhibition Design

**2. Socially Responsible Marketing Concentration****Two of:**

<sup>2</sup>Marketing 3250 - Social Marketing  
<sup>2</sup>Marketing 3260 - Not-for-Profit Marketing  
<sup>2</sup>Marketing 3290 - Marketing and Society

**Two of:**

International Management 3552 - Sustainable Tourism  
<sup>3</sup>International Management 4640 - Cross-Cultural Work Study (Series)  
 Management 3710 - Managing Not-for-Profit Organizations  
 Management 3980 - Applied Studies/Field Experience I (with a not-for-profit organization)  
 Management 4580 - Environmental Management  
<sup>2</sup>Marketing 3250 - Social Marketing  
<sup>2</sup>Marketing 3260 - Not-for-Profit Marketing  
<sup>2</sup>Marketing 3290 - Marketing and Society  
 New Media 3250 - Media, Advertising, and Consumer Culture

**Notes**

<sup>1</sup> Students should be aware that these courses have prerequisites which may require taking courses extra to their minimum degree requirements. Students are strongly advised to discuss their program with an academic advisor early in their program.

<sup>2</sup> Students cannot use Marketing 3250, Marketing 3260, and Marketing 3290 to fulfill requirements from both "Two of:" lists.

<sup>3</sup> The work study placement must have a primary focus on social responsibility, social marketing, or it must be housed within a non-for-profit organization in order to receive credit for the Socially Responsible Marketing Concentration.

For further information regarding certificate programs, please contact the Dhillon School of Business (M2060; tel. 403-329-2153).

**20. POST-BACHELOR CERTIFICATE****a. Post-Bachelor Certificate in Accounting Fundamentals**

The Dhillon School of Business offers a 10-course Post-Bachelor Certificate in Accounting Fundamentals for students with an undergraduate degree other than Accounting, seeking coursework toward the Chartered Professional Accountant (CPA) professional education program, or a certificate in Accounting Fundamentals. This certificate can also be used to meet entrance requirements for the Post-Bachelor Certificate in Advanced Accounting program.

The Post-Bachelor Certificate in Accounting Fundamentals is composed of 10 courses designed to provide a suitable combination of breadth and depth of knowledge in accounting. Please note that completion of this program may take more than one year of study due to course sequencing. Please contact an academic advisor before applying to this program to discuss your specific program requirements and possible waivers for equivalent courses already taken.

Students can earn the certificate by completing 10 of the following courses:

Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Accounting 3100 - Intermediate Financial Accounting I  
 Accounting 3101 - Intermediate Financial Accounting II  
 Accounting 3130 - Cost Accounting  
 Accounting 3131 - Management Control Systems  
 Accounting 3151 - Introduction to Tax  
 Accounting 3171 - Accounting Information Systems and Data Analytics  
 Finance 3040 - Finance  
 Finance 3470 - Corporate Finance  
 Management 3010 - Business Law  
 Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Statistics 1770 - Introduction to Probability and Statistics

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Note:** Refer to **Residence Requirement (p. 215)** for the Accounting residence requirement.

**Minimum Grade Requirement**

A minimum grade of 'C-' is required in all courses meeting the Post-Bachelor Certificate in Accounting Fundamentals requirements. It is important to note that the CPA professional body has their own minimum grade requirements. For further information, please contact an academic advisor or professional body representative.

**b. Post-Bachelor Certificate in Advanced Accounting/Chartered Professional Accountant (CPA) Bridging**

The Dhillon School of Business offers a six-course Post-Bachelor Certificate in Advanced Accounting for students with an undergraduate degree in Accounting or equivalent discipline, completing or updating pre-requisite courses for the Chartered Professional Accountant (CPA) professional education program, or seeking an undergraduate certificate in Accounting. Students with an undergraduate degree in a discipline outside of Accounting can complete the Post-Bachelor Certificate in Accounting Fundamentals to meet the entrance requirements for the Post-Bachelor Certificate in Advanced Accounting.

The Post-Bachelor Certificate in Advanced Accounting is composed of six required courses designed to provide a suitable combination of breadth and depth of knowledge in accounting at intermediate and advanced levels.

Students can earn the certificate by completing six of the following courses:

Accounting 3100 - Intermediate Financial Accounting I  
 Accounting 3101 - Intermediate Financial Accounting II  
 Accounting 3130 - Cost Accounting  
 Accounting 3131 - Management Control Systems  
 Accounting 3151 - Introduction to Tax  
 Accounting 3160 - Auditing  
 Accounting 3171 - Accounting Information Systems and Data Analytics  
 Accounting 3180 - Analyzing Cases in Accounting  
 Accounting 3190 - Not-for-Profit and Public Sector Accounting and Performance Management  
 Accounting 4110 - Advanced Financial Accounting  
 Accounting 4125/Agricultural Enterprise Management 4125 - Accounting and Agricultural Enterprises  
 Accounting 4130 - Advanced Management Accounting  
 Accounting 4151 - Advanced Tax  
 Accounting 4160 - Accounting Theory  
 Finance 3040 - Finance  
 Finance 3470 - Corporate Finance  
 Management 4090 - Management Policy and Strategy

**Note:** Refer to **Residence Requirement (p. 215)** for the Accounting residence requirement.

**Minimum Grade Requirement**

A minimum grade of 'C-' is required in all courses meeting the Post-Bachelor Certificate in Advanced Accounting requirements. It is important to note that the CPA professional body has their own minimum grade requirements. For further information, please contact an academic advisor or professional body representative.

## 21. COMBINED POST-BACHELOR CERTIFICATES

### a. Combined Post-Bachelor Certificates in Accounting/Chartered Professional Accountant (CPA) Bridging

The Dhillon School of Business offers a 16-course Combined Post-Bachelor Certificates in Accounting program for students with an undergraduate degree in a non-Accounting discipline, seeking coursework toward the Chartered Professional Accountant (CPA) professional education program, or certificates in both Accounting Fundamentals and Advanced Accounting.

The Combined Post-Bachelor Certificate in Accounting combines the requirements for the Post-Bachelor Certificate in Accounting Fundamentals and the Post-Bachelor Certificate in Advanced Accounting programs and is designed to provide a suitable combination of breadth and depth of knowledge in accounting from the fundamentals to advanced levels.

Students must successfully complete requirements for both individual certificate programs in order to meet the Combined Post-Bachelor Certificates in Accounting program requirements. Both certificates are granted when the entire program is successfully completed. Students may not double count courses toward the certificates.

Please note that completion of this program may take up to five terms due to course sequencing. Students with a Chartered Professional Accountant (CPA) transcript evaluation and course exemptions should contact an academic advisor immediately after admission to this program for information on course sequencing and possible waivers.

#### 1. General Requirements:

- Successful completion of at least 16 courses (48.0 credit hours) with cumulative and graduation GPAs of at least 2.00 (on the University of Lethbridge 4.0 scale).
- A graduation GPA in each individual certificate that meets Graduation Requirements (see **Graduation, p. 214**).
- A minimum grade of 'C-' is required in all courses meeting requirements for the Post-Bachelor Certificate in Accounting Fundamentals and the Post-Bachelor Certificate in Advanced Accounting programs.
- Students must also meet the academic standards, program requirements and graduation requirements according to the regulations set by the Dhillon School of Business, and as outlined in the Calendar.

#### 2. Program requirements:

Students must complete 10 courses (30.0 credit hours) from List A and List B towards the Post-Bachelor Certificate in Accounting Fundamentals and 6 courses (18.0 credit hours) from List B and List C towards the Post-Bachelor Certificate in Advanced Accounting. The 6 courses counting towards the Advanced Accounting Certificate must be distinct from the 10 courses counted towards the Accounting Fundamentals Certificate.

##### List A:

Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Management 3010 - Business Law  
 Statistics 1770 - Introduction to Probability and Statistics

##### One of:

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

##### List B:

Accounting 3100 - Intermediate Financial Accounting I  
 Accounting 3101 - Intermediate Financial Accounting II  
 Accounting 3130 - Cost Accounting  
 Accounting 3131 - Management Control Systems  
 Accounting 3151 - Introduction to Tax  
 Accounting 3171 - Accounting Information Systems and Data Analytics  
 Finance 3040 - Finance  
 Finance 3470 - Corporate Finance

##### List C:

Accounting 3160 - Auditing  
 Accounting 3180 - Analyzing Cases in Accounting  
 Accounting 3190 - Not-for-Profit and Public Sector Accounting and Performance Management  
 Accounting 4110 - Advanced Financial Accounting  
 Accounting 4125/Agricultural Enterprise Management 4125 - Accounting and Agricultural Enterprises  
 Accounting 4130 - Advanced Management Accounting  
 Accounting 4151 - Advanced Tax  
 Accounting 4160 - Accounting Theory  
 Management 4090 - Management Policy and Strategy

**Note:** Refer to **Residence Requirement (p. 215)** for the Accounting residence requirement.

#### Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses meeting the Combined Post-Bachelor Certificates in Accounting requirements. It is important to note that the CPA professional body has their own minimum grade requirements. For further information, please contact an academic advisor or professional body representative.



# **SOCIAL WORK (UNIVERSITY OF CALGARY) - LETHBRIDGE DIVISION**

<b>1. ADVICE AND INFORMATION . . . . .</b>	<b>240</b>	<b>4. PROGRAM REQUIREMENTS . . . . .</b>	<b>240</b>
<b>2. BACHELOR OF SOCIAL WORK PROGRAM . .</b>	<b>240</b>		
<b>3. ADMISSION . . . . .</b>	<b>240</b>		
<b>a. Transfer Students . . . . .</b>	<b>240</b>		
<b>b. After Degree Students . . . . .</b>	<b>240</b>		



## 1. ADVICE AND INFORMATION

The following is an abridgement of program details and regulations provided in the University of Calgary Calendar, which should be consulted for official program information. Inquiries may be addressed to the Student Advisor, Faculty of Social Work (Southern Alberta Region), care of the University of Lethbridge.

## 2. BACHELOR OF SOCIAL WORK PROGRAM

The University of Calgary offers the Bachelor of Social Work (B.S.W.) program on the University of Lethbridge campus in Lethbridge. The objective of the B.S.W. program is to prepare students for entry-level general social work practice. The program provides opportunities for students to acquire sufficient knowledge, values and skills to enable them to maintain a professional standard of practice.

In the B.S.W. program, students register with the University of Calgary, which awards their degree; however, they attend all courses on the University of Lethbridge campus in Lethbridge and have full access to University of Lethbridge facilities.

## 3. ADMISSION

Application to the University of Calgary is completed online at [www.ucalgary.ca](http://www.ucalgary.ca).

Application instructions are online at [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

The deadline for application is March 1.

### a. Transfer Students

By the end of the spring session preceding the fall session for which entry is sought, applicants must have completed:

19 non-social work half-course equivalents plus Social Work 201 - Introduction to Social Welfare.

The prerequisite course listed above will be offered through the Faculty of Social Work and is available to University of Lethbridge students on a Visiting student or Open Studies student basis. Please consult with the Faculty office for details on when this course is offered at [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca).

### b. After Degree Students

Students who have completed an undergraduate degree and the Social Work 201 - Introduction to Social Work course may apply to the third year of the B.S.W. via the university transfer route. These students may also apply to the Master of Social Work (M.S.W.) program at the Calgary site. The M.S.W. route requires two years of social work experience to be eligible to apply (3000 hours of volunteer or work experience in the human services).

Once admitted to the program, students may apply for advance credit for Social Work courses. Students will receive credit for a maximum of two half-courses in Social Work.

## 4. PROGRAM REQUIREMENTS

The B.S.W. curriculum consists of core content, field education, and social work options. The social work option courses are taken in the spring and summer between year three and year four. The following is a typical program profile for a regular student:

### Year Three

Social Work 355 - Research in Context  
Social Work 361 - Professional Use of Self  
Social Work 363 - Human Development and Environments  
Social Work 365 - Critical Approaches to Social Work Practice  
Social Work 371 - Social Work and Diversity  
Social Work 391 - Practice and Evaluation with Individuals  
Social Work 393 - Practice and Evaluation with Families  
Social Work 395 - Practice and Evaluation with Groups  
Social Work 397 - Practice and Evaluation with Communities  
Social Work 399 - Practice and Evaluation with Organizations

### Year Four

Social Work 383 - Social Policy and Social Justice  
Social Work 410 - Introductory Practicum (three days per week)  
Social Work 411 - Integrative Seminar: Portfolio-Based Application of Research and Theory in Practice  
Social Work 412 - Senior Practicum (four days per week)  
Social Work 413 - Integrative Seminar: Portfolio-Based Application of Research and Theory in Practice  
Three Social Work options

**Note:** Students must be registered as full-time students when they enrol in practicum.

Social Work 410 and 412 are field practicum courses that provide an opportunity for the student to be directly involved in social work practice. Successful completion of the practica is a requirement for graduation.

Field settings where students have completed practica in the past include:

- Alberta Health Services: Addictions
- Alberta Health Services: Mental Health
- Alberta Health Services: Lethbridge Regional Hospital
- Barons Eureka Warner FCSS
- Chinook High School
- Making Connections Programs
- Kainaiwa Children's Services
- ARCHES
- Lethbridge Community Corrections
- Lethbridge Family Services
- Lethbridge Immigrant Services
- Lethbridge School District #51 Elementary Schools
- Palliser Regional Schools
- South West Alberta Child and Family Services
- Woods Homes
- YWCA Outreach Program



# COMBINED DEGREES

<b>1. GENERAL INFORMATION</b>	<b>245</b>		
<b>2. ADVISING</b>	<b>245</b>		
<b>3. BACHELOR OF ARTS/BACHELOR OF EDUCATION OR BACHELOR OF SCIENCE/ BACHELOR OF EDUCATION</b>	<b>245</b>		
a. Admission	245		
b. Faculty of Arts and Science or Faculty of Fine Arts Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.	246		
c. Faculty of Education Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.	247		
d. Major Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.	247		
e. Education Minor Requirements	267		
f. Education Specialization Requirements	267		
g. Academic Regulations	267		
h. Residence Requirement	267		
i. Education Special Study Arrangements	268		
<b>4. BACHELOR OF FINE ARTS - ART/ BACHELOR OF EDUCATION</b>	<b>268</b>		
a. Admission	268		
b. Faculty of Fine Arts Requirements for the 50-Course (150.0 credit hours) B.F.A. - Art/B.Ed.	269		
c. Faculty of Education Requirements for the 50-Course (150.0 credit hours) B.F.A. - Art/B.Ed.	270		
d. Sample Sequencing Plan	270		
e. Academic Regulations	270		
f. Education Minor Requirements	270		
g. Residence Requirement	271		
h. Education Special Study Arrangements	271		
<b>5. BACHELOR OF FINE ARTS - DRAMATIC ARTS/BACHELOR OF EDUCATION</b>	<b>271</b>		
a. Admission	271		
b. Faculty of Fine Arts Requirements for the 50-Course B.F.A. - Dramatic Arts/B.Ed.	272		
c. Faculty of Education Requirements for the 50-Course B.F.A. - Dramatic Arts/B.Ed.	273		
d. Sample Sequencing Plan	273		
e. Academic Regulations	273		
f. Education Minor Requirements	273		
g. Residence Requirement	273		
h. Education Special Study Arrangements	273		
<b>6. BACHELOR OF FINE ARTS - NEW MEDIA/ BACHELOR OF EDUCATION</b>	<b>274</b>		
a. Admission	274		
b. Faculty of Fine Arts Requirements for the 50-Course (150.0 credit hours) B.F.A. - New Media/B.Ed.	275		
c. Faculty of Education Requirements for the 50-Course (150.0 credit hours) B.F.A. - New Media/B.Ed.	275		
d. Sample Sequencing Plan	276		
e. Academic Regulations	276		
f. Education Minor Requirements	276		
g. Residence Requirement	276		
h. Education Special Study Arrangements	276		
<b>7. BACHELOR OF MUSIC/BACHELOR OF EDUCATION</b>	<b>277</b>		
a. Admission	277		
b. Faculty of Fine Arts Requirements for the 52-Course B.Mus./B.Ed.	278		
c. Faculty of Education Requirements for the 52-Course B.Mus./B.Ed.	279		
d. Sample Sequencing Plan	280		
e. Academic Regulations	280		
f. Education Minor Requirements	280		
g. Residence Requirement	280		
h. Education Special Study Arrangements	280		
<b>8. BACHELOR OF MANAGEMENT/BACHELOR OF EDUCATION</b>	<b>280</b>		
a. Admission	280		
b. Dhillon School of Business Requirements for the 50-Course B.Mgt./B.Ed.	282		
c. Faculty of Education Requirements for the 50-Course B.Mgt./B.Ed.	283		
d. Sample Sequencing Plan	283		
e. Academic Regulations	283		
f. Education Minor Requirements	283		
g. Education Specialization Requirements	284		
h. Residence Requirement	284		
i. Education Special Study Arrangements	284		
<b>9. BACHELOR OF ARTS/BACHELOR OF MANAGEMENT OR BACHELOR OF SCIENCE/ BACHELOR OF MANAGEMENT</b>	<b>284</b>		
a. Admission	284		
b. General Requirements for the 50-Course B.A./B.Mgt. or B.Sc./Mgt.	285		
c. Faculty of Arts and Science or Faculty of Fine Arts Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./Mgt.	285		
d. Dhillon School of Business Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.	285		
e. Major Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.	286		
f. Sample Sequencing Plan	306		
g. Academic Regulations	306		
h. Residence Requirement	306		
<b>10. BACHELOR OF FINE ARTS - NEW MEDIA/ BACHELOR OF SCIENCE (COMPUTER SCIENCE)</b>	<b>307</b>		
a. Admission	307		
b. Degree requirements for the B.F.A. - New Media/B.Sc.	307		
c. Sample Sequencing Plan	308		

<b>11. BACHELOR OF FINE ARTS - NEW MEDIA/ BACHELOR OF MANAGEMENT</b>	<b>308</b>
a. Admission	309
b. General Requirements for the 50-Course B.F.A. - New Media/B.Mgt.	309
c. Faculty of Fine Arts Degree Requirements for the 50-Course B.F.A. - New Media/ B.Mgt.	309
d. Dhillon School of Business Degree Requirements for the 50-Course B.F.A. - New Media/B.Mgt.	310
e. Academic Regulations	311
f. Residence Requirement	311
g. Sample Sequencing Plan	311
<b>12. BACHELOR OF HEALTH SCIENCES/ BACHELOR OF MANAGEMENT</b>	<b>311</b>
a. Admission	311
b. General Requirements for the 50-Course B.H.Sc./B.Mgt.	312
c. Faculty of Health Sciences Degree Requirements for the 50-Course B.H.Sc./ B.Mgt.	312
d. Dhillon School of Business Degree Requirements for the 50-Course B.H.Sc./ B.Mgt.	313
e. Sample Sequencing Plan	314
f. Academic Regulations	314
<b>13. POST-DIPLOMA COMBINED DEGREES PROGRAMS IN FINE ARTS AND EDUCATION</b>	<b>314</b>
a. Admission	314
b. Faculty of Fine Arts Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.F.A. - Art or Dramatic Arts/B.Ed. or Post-Diploma B.Mus./B.Ed.	315
c. Faculty of Education Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.F.A. - Art or Dramatic Arts/B.Ed. or Post-Diploma B.Mus./B.Ed.	318
d. Sample Sequencing Plan	319
e. Academic Regulations	319
f. Education Minor Requirements	319
g. Residence Requirement	319
h. Education Special Study Arrangements	319
<b>14. POST-DIPLOMA BACHELOR OF MANAGEMENT/BACHELOR OF EDUCATION</b>	<b>319</b>
a. Admission	319
b. Dhillon School of Business Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.Mgt./B.Ed.	320
c. Faculty of Education Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.Mgt./B.Ed.	321
d. Sample Sequencing Plan	322
e. Academic Regulations	322
f. Education Minor Requirements	322
g. Education Specialization Requirements	322
h. Residence Requirement	322
i. Education Special Study Arrangements	322

## I. GENERAL INFORMATION

Combined Degrees programs at the University of Lethbridge are generally 50 courses (five years) in length and provide students with the opportunity to meet the requirements for two degrees offered by two different Faculties or Schools. Note that some Combined Degrees programs require more than 50 courses. Students must be admitted to both Faculties and/or Schools responsible for a particular Combined Degrees program before they may be registered formally in the program. Some programs have enrolment limits and there is no guarantee of admission to Combined Degrees programs. The student is granted neither degree until all program requirements for both degrees are satisfied.

All applicants to Combined Degrees programs must meet the general admission requirements and deadlines outlined in **Admission (p. 21)**.

If a student is admitted to a Combined Degrees program and subsequently withdraws from the program, the student must make a formal application to the Faculty or School in which he or she intends to pursue a degree.

The University of Lethbridge offers programs leading to the following Combined Degrees:

- Bachelor of Arts/Bachelor of Education (50 courses)
- Bachelor of Science/Bachelor of Education (50 courses)
- Bachelor of Fine Arts - Art/Bachelor of Education (50 courses)
- Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education (50 courses)
- Bachelor of Fine Arts - New Media/Bachelor of Education (50 courses)
- Bachelor of Music/Bachelor of Education (52 courses)
- Bachelor of Management/Bachelor of Education (50 courses)
- Bachelor of Arts/Bachelor of Management (50 courses)
- Bachelor of Science/Bachelor of Management (50 courses)
- Bachelor of Fine Arts - New Media/Bachelor of Science (Computer Science) (50 courses)
- Bachelor of Fine Arts - New Media/Bachelor of Management (50 courses)
- Bachelor of Health Sciences/Bachelor of Management (50 courses)
- Post-Diploma Bachelor of Fine Arts - Art\*/Bachelor of Education (35 courses)
- Post-Diploma Bachelor of Fine Arts - Dramatic Arts\*/Bachelor of Education (35 courses)
- Post-Diploma Bachelor of Music\*/Bachelor of Education (35 courses)
- Post-Diploma Bachelor of Management/Bachelor of Education (35 courses)

\*After a two- or three-year diploma

**Note:** The Faculty of Education does not offer a B.Ed. degree alone, except after an approved degree. All other students must be admitted to a Combined Degrees program in order to receive a B.Ed.

## 2. ADVISING

Combined Degrees are made possible by the collaboration of two different Faculties or Schools. Students should consult with advisors from each Faculty or School throughout their program.

## 3. BACHELOR OF ARTS/BACHELOR OF EDUCATION OR BACHELOR OF SCIENCE/BACHELOR OF EDUCATION

The Faculties of Arts and Science and Education, and Faculties of Fine Arts and Education jointly offer a 50-course (150.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Arts (B.A.) or Bachelor of Science (B.Sc.) and Bachelor of Education (B.Ed.). Upon successful completion of the Combined Degrees program, the student receives the B.A. or B.Sc. degree from the Faculty of Arts and Science or Faculty of Fine Arts and the B.Ed. degree from the Faculty of Education.

### a. Admission

Students begin in the Pre-B.A./B.Ed. or Pre-B.Sc./B.Ed. program in the Faculty of Arts and Science or Faculty of Fine Arts where they progress toward completion of degree requirements and prepare to meet the admission requirements for the Faculty of Education. After completion of the minimum admission requirements for the Faculty of Education, students may apply and, if accepted, be formally enrolled in the B.A./B.Ed. or B.Sc./B.Ed. Combined Degrees program.

Students are not officially in the Combined Degrees program until they have been admitted to both the Faculty of Arts and Science or Faculty of Fine Arts and the Faculty of Education.

1. Faculty of Arts and Science or Faculty of Fine Arts Admission Requirements for the Pre-B.A./B.Ed., Pre-B.Sc./B.Ed., B.A./B.Ed., and B.Sc./B.Ed.

All applicants to the Pre-B.A./B.Ed. or Pre-B.Sc./B.Ed. and B.A./B.Ed. or B.Sc./B.Ed. programs are advised to refer to **Admission (p. 21)** and [www.ulethbridge.ca/ross/admissions/undergrad](http://www.ulethbridge.ca/ross/admissions/undergrad) for general admission requirements, additional admission requirements, policies, and application deadlines.

2. Faculty of Education Admission Requirements for the B.A./B.Ed. and B.Sc./B.Ed.

Based on the Faculty's quota system, normally a total of 216 students will be admitted to Bachelor of Education programs (Combined Degrees and After Degree) each year. Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combined Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Completion of a minimum of 14 University of Lethbridge or transferable courses (42.0 credit hours), including the appropriate minimum number of courses in the B.A. or B.Sc. major, as follows:
  1. At least five courses (15.0 credit hours) in a major; or
  2. At least eight courses (24.0 credit hours) in a 16-course general major, including at least four courses (12.0 credit hours) in the main teaching subject area.

**Note:** Students should consult with an academic advisor for assistance planning the sequencing of their remaining B.A. or B.Sc. degree requirements after admission to the Faculty of Education.

- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses taken within the terms containing the last 14 courses (42.0 credit hours). All courses must be graded.
- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all graded courses comprising the B.A. or B.Sc. major.
- d. Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- e. Only courses completed by the admission document deadline will be considered for admission (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Exceptions are made for the completion of Education 2500 when applicants are completing the course over the spring or summer preceding admission.
- f. Completion of additional admission requirements for the Indigenous Education Major  
Completion of three of the seven courses required in the school subject minor. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.00 scale) is required on all graded courses comprising the minor.
- g. Special Case Admission  
Applicants who have a satisfactory academic record but who, for some reason, had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.
- h. Admission Procedures Available to Students of Aboriginal Descent  
The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.
- i. Returning after Withdrawal or Required Withdrawal from the Faculty of Education  
Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

3. Choice of majors

Applicants must choose majors for B.A./B.Ed. and B.Sc./B.Ed Combined Degrees programs from the list of **Eligible Major Combinations for Combined Degrees Programs (p. 248)**.

**b. Faculty of Arts and Science or Faculty of Fine Arts Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.**

General Requirements for the B.A. or B.Sc.

1. Completion of at least 30 courses (90.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
2. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
3. Not more than 10 courses (30.0 credit hours) completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.
4. Completion of at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000 or 4000 level, excluding Activity courses (labelled PHAC and MUSE).
5. Not more than three Independent Study courses (9.0 credit hours) may be completed for credit toward the degree.
6. Not more than three Disciplinary Credit Applied Studies courses (9.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
7. Not more than 17 courses (51.0 credit hours) may be completed from any one discipline (see **Faculty of Arts and Science, Arts and Science Disciplines, p. 91**).

**Note:** Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).

8. Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).
9. Residence requirement: at least 15 courses (45.0 credit hours) offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education must be completed at the University of Lethbridge.

(See **Academic Regulations, Exceeding Course Limits, p. 56**)

**c. Faculty of Education Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.**

General Requirements for the B.Ed.

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course

Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, school jurisdictions and schools require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

- a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

Education 4362 - Concepts of Childhood in the History of Education

Education 4380 - Developing a Philosophy of Education

Education 4381 - Ethics of Teaching

Education 4391 - Seminar in Educational Foundations (Series)

- b. One appropriate Independent Study.

3. Maintenance of a program GPA of 2.50 in Education courses.
4. Completion of the appropriate Education major as defined by the program.
5. Maintenance of a program GPA of 2.50 in the appropriate Education major.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
7. Residence requirement: see **Residence Requirement (p. 267)** for details.

**d. Major Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.**

1. Arts and Science and Fine Arts Majors

For the B.A., a major program must be chosen and completed from among the following majors: Anthropology, Art, Canadian Studies, Dramatic Arts, Economics, English, French, French/Spanish, Geography, History, Indigenous Studies, Kinesiology, Music, Political Science, Sociology, a General Major in the Humanities, or a General Major in the Social Sciences.

For the B.Sc., a major program must be chosen and completed from among the following majors: Biological Sciences, Chemistry, Geography, Kinesiology, Mathematics, Physics, or a General Major in the Sciences.

At least half the required courses in the major must be completed at the University of Lethbridge.

2. Education Majors

There are a total of 11 Education majors, with 10 Education majors in the B.A./B.Ed. or B.Sc./B.Ed. degree program: Art Education, Drama Education, English Language Arts Education, Indigenous Education, Mathematics Education, Modern Languages Education (French or French/Spanish), Music Education, Physical Education, Science Education and Social Studies Education. One additional Education major, Career and Technology Studies (CTS): Business Focus, is available for the B.Mgt./B.Ed. Combined Degrees program and the CTS: New Media Focus is available for the B.F.A. - New Media/B.Ed. Combined Degrees program.

Students must meet the Education major requirements by completing one of the following:

- A disciplinary major;
- A Combined Degrees major;
- The major in Canadian Studies; or,
- A General Major in the Humanities, Social Sciences, or Sciences (as specified by the Education major).



## 3. Eligible Major Combinations for Combined Degrees Programs

Students enrolled in a Combined Degrees program must choose a major for the B.A. or B.Sc. and then select a corresponding major for the B.Ed. Listed below are the eligible major combinations for the Combined Degrees programs:

Arts and Science or Fine Arts Major	Education Major
Anthropology	Social Studies Education
Art	Art Education
Biological Sciences	Science Education
Canadian Studies	Social Studies Education
Chemistry	Science Education
Dramatic Arts	Drama Education
Economics	Social Studies Education
English	English Language Arts Education
French	Modern Languages Education: French
French/Spanish	Modern Languages Education: French/Spanish
Geography	Science Education
Geography	Social Studies Education
History	Social Studies Education
Indigenous Studies	Indigenous Education
Kinesiology (B.A.)	Physical Education
Kinesiology (B.Sc.)	Physical Education
Mathematics	Mathematics Education
Music	Music Education
Physics	Science Education
Political Science	Social Studies Education
Sociology	Social Studies Education
General Major in the Humanities	English Language Arts Education
General Major in the Sciences	Mathematics Education
General Major in the Sciences	Science Education
General Major in the Social Sciences	Indigenous Education
General Major in the Social Sciences	Physical Education
General Major in the Social Sciences	Social Studies Education

Requirements for each major combination are listed in the following sections. Please note that information has been grouped under the Education major (e.g., the requirements for a History major in the B.A./B.Ed. Combined Degrees program would be located under the corresponding Social Studies Education major).

**Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

a. **Art Education**

Students may meet the Art Education major requirements by completing the major in Art.

Number of courses required for the major: 13

**Required courses:**

Art 2010 - Drawing Studio I

Art History 1001 - World Art Before 1400

Art History 1002 - World Art Since 1400

Art History 3001 - Theory and Methods in Art and Art History

**One of:**

Art 2060 - Media Arts (Digital Sketchbook)

Art 2061 - Media Arts (Video Sketchbook)

**One of:**

Art 3261 - Art NOW  
 Art 3262 - Art NOW

**One of:**

Art History 3200 - Issues in 19th-Century Art and Culture  
 Art History 3215 - 20th-Century Art History to 1945  
 Art History 3240 - Canadian Art History to 1960  
 Museum Studies 2900 - Introduction to Museum Studies

**One of:**

Art History 3151 - Art History (Series)  
 Art History 3152 - Indigenous Art History (Series)  
 Art History 3220 - Art from 1945 to 1980  
 Art History 3245 - Canadian Art History from 1960 to the Present  
 Art History 3270 - Global Art Since 1980  
 Art History 3850 - Topics in Art History  
 Art History 4150 - Art History (Series)  
 Museum Studies 3850 - Topics in Museum Studies  
 Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display  
 Museum Studies 4000 - Museum Studies Internship

**Three of:**

Art 2005 - Print Studio (Without a Press) OR Art 2006 - Print Studio (With a Press)  
 Art 2015 - Art Studio (Series)  
 Art 2023 - Painting Studio I  
 Art 2027 - Photography Studio I  
 Art 2033 - Spatial Practice I  
 Art 2350/Indigenous Studies 2350 - Indigenous Art Studio I  
 Art 3010 - Drawing Studio II  
 Art 3015 - Art Studio (Series)  
 Art 3023 - Painting Studio II  
 Art 3027 - Photography Studio II  
 Art 3033 - Spatial Practice II  
 Art 3350/Indigenous Studies 3350 - Indigenous Art Studio II

Two Art Studio Electives at the 3000/4000 level

**Notes**

Students may complete multiple offerings of Art 2015 and/or Art 3015 to meet major requirements, but students must also be aware that they must complete a minimum of 10 courses at the 3000/4000 level to meet the B.A. degree requirements in a Combined Degrees B.A./B.Ed.

Students with an interest in Art Education are also referred to the **Bachelor of Fine Arts - Art/Bachelor of Education (p. 268)**.

**b. Drama Education**

Students may meet the Drama Education major requirements by completing the major in Dramatic Arts.

Number of courses required for the major: 15

**Required courses:**

Drama 1000 - Introduction to Dramatic Arts  
 Drama 2010 - Performance Fundamentals  
 Drama 2100 - Play Reading and Analysis  
 Drama 2120 - History and Development of Theatre I  
 Drama 2130 - History and Development of Theatre II  
 Drama 2420 - Directing I  
 Drama 2810 - Introduction to Stagecraft  
 Drama 3100 - Theatre in Performance  
 Drama 3130 - Canadian Theatre

**One of:**

Drama 2310 - Acting I  
 Drama 2320 - Voice I  
 Drama 2340 - Movement I  
 Drama 2510 - Theatre for Young Audiences I  
 Drama 2740 - Devised Theatre I  
 Drama 2750 - Playwriting I  
 Drama 2825 - Introduction to Design for Theatre

**One of:**

Drama 2600 - Drama Portfolio I  
 Drama 3611 - Advanced Stagecraft I

**Two of:**

Cinema 3000 - Contemporary American Cinema  
 Cinema 3001 - Film Authorship  
 Cinema 3201 - Documentary Film Studies  
 Cinema 3202 - Film Noir and Crime Cinema  
 Cinema 3203 - Film Comedy  
 Cinema 3550/New Media 3550 - History of Animation  
 Drama 3150 - Theatre Studies (Series)  
 Drama 3151 - Play Reading and Analysis II  
 Drama 3160 - Dramaturgy  
 English 3010 - Literary Theory  
 New Media 3560 - Popular Narrative

**One of:**

English 3201 - Elizabethan and Jacobean Drama  
 English 3602 - Shakespeare  
 English 3620 - Modern Drama  
 English 3660 - Contemporary Drama

**One of:**

Drama 4150 - Theatre Studies (Series)  
 Drama 4211 - Theories of Theatre

One additional course (3.0 credit hours) in Drama at the 3000/4000 level

**Notes**

It is recommended that students consider additional courses from the Dramatic Literature series of the Department of English.

Students with an interest in Drama Education are also referred to the **Bachelor of Fine Arts - Dramatic Arts/ Bachelor of Education (p. 271)**.

c. **English Language Arts Education**

Students may meet the English Language Arts Education major requirements by completing the major in English or the General Major in the Humanities.

## I. English

Number of courses required for the major: 13

**Required courses:**

English 1900 - Introduction to Language and Literature - or equivalent  
 English 2610 - Survey of Children's Literature

**One of (Literary Surveys):**

English 2000 - Survey of Canadian Literature  
 English 2400 - Survey of English Literature I  
 English 2450 - Survey of English Literature II  
 English 2500 - Survey of American Literature I  
 English 2550 - Survey of American Literature II  
 English 2625 - Survey of World Literature  
 English 2700 - Surveys of Literature (Series)

**Two of (Genres, Approaches, and Themes):**

English 2100 - Poetry  
 English 2200 - Drama  
 English 2300 - Prose Fiction  
 English 2605/Indigenous Studies 2605 - Introduction to Indigenous Literature  
 English 2720 - Approaches to Literature (Series)  
 English 2800 - Rhetoric  
 English 2810 - Grammar

Six courses (18.0 credit hours) in English at the 3000/4000 level chosen from the subfield lists below.

Two courses (6.0 credit hours) in English at the 4000 level chosen from the subfield lists below.

For the above 3000/4000-level requirements, students must draw courses from at least five of the following subfield lists:

## a. Theory, Language and Creative Writing

English 3010 - Literary Theory  
 English 3060 - Gender and Literature  
 English 3070 - Imperialism and Nationalism in Children's Literature  
 English 3800 - Creative Writing  
 English 3901 - History of the English Language

- b. Old and Middle English
  - English 3401 - Medieval Literature
  - English 3450 - Old English
  - English 3601 - Chaucer
- c. Renaissance
  - English 3201 - Elizabethan and Jacobean Drama
  - English 3410 - 17th-Century Literature
  - English 3602 - Shakespeare
- d. Eighteenth Century and Romantic
  - English 3301 - Rise of the Novel
  - English 3310 - Restoration and 18th-Century Literature
  - English 3350 - Romanticism
- e. Nineteenth Century
  - English 3302 - 19th-Century British Novel
  - English 3500 - Victorian Literature
- f. Twentieth Century and Contemporary
  - English 3610 - Modernism
  - English 3620 - Modern Drama
  - English 3630 - Modern Novel
  - English 3650 - Contemporary Literature
  - English 3660 - Contemporary Drama
- g. Canadian and Post-Colonial
  - English 3001 - Canadian Poetry
  - English 3002 - Contemporary Canadian Drama
  - English 3008 - Canadian Literature, 1867 - 1914
  - English 3605/Indigenous Studies 3605 - Indigenous Literature - Advanced
  - English 3810 - Contemporary Canadian Literature
  - English 3860 - Post-Colonial Literature
  - English 4000 - Seminars in Canadian and Post-Colonial Literature (Series)

#### **Recommended courses:**

English 2800 - Rhetoric  
English 3602 - Shakespeare

#### **Notes**

Offerings in the English 3700, English 4400, and English 4600 series will be assigned to one of the subfield lists at the time of scheduling. Please refer to the current term timetable.

Students must present among the 13 courses one of the following courses in Canadian Literature:

English 2000 - Survey of Canadian Literature  
English 3002 - Contemporary Canadian Drama  
English 3810 - Contemporary Canadian Literature  
Any offering in the English 3700, English 4000, English 4400, or English 4600 series with an emphasis on Canadian literature.

Independent Studies courses, Applied Studies courses, and courses not listed under the seven subfields are not counted as part of the 13-course minimum for the major; they are strongly encouraged for students taking courses beyond this minimum, however.

It is recommended that students include a broad variety of periods and all three genres (drama, poetry, and prose fiction) in their programs.

## **2. General Major in the Humanities**

Number of courses required for the major: 16

#### **Required courses:**

Seven courses (21.0 credit hours) in English

Four courses (12.0 credit hours) in each of two other disciplinary streams chosen from the following list:

Fine Arts - all courses in Art, Art History, Cinema, Drama, Museum Studies, Music, Music Studio, and New Media  
One of French, Japanese, or Spanish  
Classical Languages<sup>1</sup> - all courses in Greek, Hebrew, and Latin  
History - all courses  
Indigenous Studies - all courses (including courses in Blackfoot and Cree)  
Linguistics - all courses designated Humanities  
Philosophy - all courses designated Humanities  
Religious Studies - all courses

One course (3.0 credit hours) in a language other than English  
 Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

### Notes

<sup>1</sup>Classical language courses (Greek, Hebrew, and Latin) may not be offered each term.

To determine if a given course in a disciplinary stream has a Humanities designation, see List I: Fine Arts and Humanities Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

If one of the disciplinary streams selected is a language discipline, students may use a course in a different language or an additional course in the chosen stream to meet the language requirement.

Students are strongly encouraged to choose Humanities disciplines which are school subject areas or are taught in the provincial curriculum.

### d. Indigenous Education

Students may meet the Indigenous Education major requirements by completing the major in Indigenous Studies or the General Major in the Social Sciences.

#### 1. Indigenous Studies

Number of courses required for the major: 14

##### Required courses:

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

Indigenous Studies 1010 - Introduction to Indigenous Studies II: Global Perspectives

Indigenous Studies 1100/Linguistics 1100 - Language and Culture in Indigenous America

One course (3.0 credit hours) in Blackfoot or Cree

##### One of (Art and Literature):

Indigenous Studies 2300 - North American Indigenous Art History and Theory

Indigenous Studies 2350/Art 2350 - Indigenous Art Studio I

Indigenous Studies 2605/English 2605 - Introduction to Indigenous Literature

##### One of (Culture and History):

Indigenous Studies 2400 - Comparative Traditional Indigenous Economies

Indigenous Studies 2455 - Social Organization: Kinship

Indigenous Studies 2500 - Indigenous Histories of Canada

Indigenous Studies 2550 - Indigenous Histories of the United States

Indigenous Studies 3220 - Oral Histories/Life Stories

Indigenous Studies 3860 - Seminar in Indigenous North American Histories, Archaeologies, and Cultures (Series)

##### One of (Law and Politics):

Indigenous Studies 2100 - Indigenous Peoples and Law

Indigenous Studies 3500 - Indigenous Treaties in an International Context

Indigenous Studies 3550 - Settler Colonial Policies and Indigenous Sovereignities

##### One of (Contemporary Themes):

Indigenous Studies 2360 - Indigenous Popular Cultures

Indigenous Studies 2700 - Indigenous Women

Indigenous Studies 3700 - Indigenous Health

Three courses (9.0 credit hours) in Indigenous Studies at the 3000/4000 level

One course (3.0 credit hours) in Indigenous Studies at the 4000 level

Two additional courses (6.0 credit hours) in Indigenous Studies, Blackfoot, or Cree

##### Additional requirements for the Indigenous Education major include:

A seven-course minor in a main school subject (excluding Blackfoot Education, Religious Studies Education, and any Career and Technologies Studies Focus except Business, Administration, Finance & Information Technology (BIT))

A Methods course in the required minor

Completion of Professional Semester III in Education 4576 - Indigenous Education Internship (Fall)

#### 2. General Major in the Social Sciences

Number of courses required for the major: 16

##### Required courses:

Seven courses (21.0 credit hours) in Indigenous Studies

Four courses (12.0 credit hours) in each of two other disciplinary streams chosen from the following list:

Anthropology – all courses

Archaeology – all courses designated Social Science

Economics – all courses designated Social Science

Geography – all courses designated Social Science

History – all courses  
 Kinesiology – all courses designated Social Science (Physical Activity courses may not be included)  
 Political Science – all courses designated Social Science  
 Psychology – all courses designated Social Science  
 Sociology – all courses  
 Women and Gender Studies – all courses designated Social Science

**One of (Quantitative Methods):**

Economics 2900 - Economics and Business Statistics  
 Geography 2700 - Geographical Data and Analysis  
 Psychology 2030 - Methods and Statistics B  
 Sociology 2130 - Quantitative Research Practice  
 Statistics 2780 - Statistical Inference

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

**Additional requirements for the Indigenous Education major include:**

A seven-course minor in a main school subject (excluding Blackfoot Education, Religious Studies Education, and any Career and Technologies Studies Focus except Business, Administration, Finance & Information Technology (BIT))

A Methods course in the required minor

Completion of Professional Semester III in Education 4576 - Indigenous Education Internship (Fall)

**Notes**

To determine if a given course in a disciplinary stream has a Social Science designation, see List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

The Quantitative Methods courses have prerequisites which may or may not be included in the major.

Students are strongly encouraged to choose Social Science disciplines which are school subject areas or are taught in the provincial curriculum.

**e. Mathematics Education**

Students may meet the Mathematics Education major requirements by completing the major in Mathematics or the General Major in the Sciences.

**I. Mathematics**

Number of courses required for the major: 14

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 2000 - Mathematical Concepts  
 Mathematics 3400 - Group and Ring Theory  
 Mathematics 3500 - Analysis I  
 Statistics 1770 - Introduction to Probability and Statistics  
 Statistics 2780 - Statistical Inference

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II (recommended)

**One of the following Streams (a. or b.):**

**a. Standard Stream**

Mathematics 2570 - Calculus III  
 Mathematics 2580 - Calculus IV

**b. Accelerated Stream**

Mathematics 2575 - Accelerated Calculus III (recommended)  
 One additional course (3.0 credit hours) in Mathematics, Statistics, or Computer Science at the 2000 level or above

**One of:**

Mathematics 3200 - Geometry  
 Mathematics 3461 - Elementary Number Theory  
 Mathematics 3860 - Combinatorics

One additional course (3.0 credit hours) in Mathematics or Statistics at the 2000 level or above

One additional course (3.0 credit hours) in Mathematics or Statistics at the 3000/4000 level

**Notes**

<sup>1</sup> One course (3.0 credit hours) in Mathematics at the 3000/4000 level may replace Statistics 2780 in the list of required courses.

Independent Study (1990, 2990, 3990, 4990) or Applied Study (2980, 3980, 4980) courses may not be used to meet the minimum Mathematics or Statistics course requirements above, except for the additional course for students completing the accelerated calculus stream. Mathematics 2090 (Number Systems) may not be used to meet any requirements for the major.

2. **General Major in the Sciences**

Number of courses required for the major: 16

**Required courses:**

Seven courses (21.0 credit hours) in Mathematics or Statistics

Four courses (12.0 credit hours) in each of two other disciplinary streams chosen from the following list:

- Archaeology - all courses designated Science
- Biological Sciences - all Biology courses
- Chemistry - all courses (including courses in Biochemistry)
- Computer Science - all courses
- Geography - all courses designated Science
- Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)
- Neuroscience - all courses
- Physics - all courses (including courses in Astronomy and Engineering)
- Psychology - all courses designated Science

**One of (Science in Human Affairs):**

- Biochemistry 2300 - Elements of Human Nutrition
- Biology 2500 - Biology and Society
- Environmental Science 2000 - Fundamentals of Environmental Science
- Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences
- Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter
- Philosophy 3402 - Biomedical Ethics
- Physics 2020 - The Physics of Everyday Life

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

**Notes**

To determine if a given course in a disciplinary stream has a Science designation, see List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

Some of the Science in Human Affairs courses have prerequisites which may or may not be included in the major.

Students are strongly encouraged to choose Science disciplines which are school subject areas or are taught in the provincial curriculum.

f. **Modern Languages Education**

Students may meet the Modern Languages Education major requirements by completing the major in French or French/Spanish.

1. **Modern Languages Education: French**

Number of courses required for the major: 15

**Required courses:****One of the following streams (a. or b.):**

**a. Non-Immersion Stream** (for students who have completed French 30, French 31, or equivalent)

- French 2010 - Intermediate Language I
- French 2020 - Intermediate Language II

**b. Immersion Stream** (for students who have completed French Language Arts 30, Français 30, or equivalent)

- French 2001 - Intermediate Language for Immersion Graduates
- One additional course in French

- French 2250 - French Immersion
- French 2300 - Introduction to Modern Literature and Literary Analysis
- French 2700 - Communication écrite et orale
- French 3001 - Advanced Language I
- French 3100 - Survey of Pre-Revolutionary French Literature
- French 3450 - Phonetics and Diction
- French 3600 - Literary Genres (Series)
- French 4001 - Advanced Language II
- Linguistics 2300 - Introduction to Linguistics I: Phonetics and Phonology
- Linguistics 2600 - Introduction to Linguistics II: Morphology, Syntax and Semantics

**One of:**

- French 4002 - Advanced Studies in Language (Series)
- French 4600 - Seminar in Literature (Series)

Two additional courses (6.0 credit hours) in French

**Notes**

Students may **not** count French 1000 (Beginners' French I) among the minimum requirements for the major.

Students registering in introductory language courses must complete the Student Information Form to determine whether they are registered in the appropriate course. Students may be asked to write the Student Placement Test. Advanced placement may be granted to students who have acquired language skills outside of a formal academic environment. Please refer to [www.ulethbridge.ca/artsci/modern-languages/department-modern-languages-placement-policy](http://www.ulethbridge.ca/artsci/modern-languages/department-modern-languages-placement-policy) for more information.

Students who have not completed French 30 or French 31 (or equivalent) should begin their program with French 1000 and/or French 1100, depending on the placement test.

French 2250 is a required course along with the off-campus study term. Students must take two courses (3.0 credit hours) for which the language of instruction is French. **It is recommended that students successfully complete French 2250 before enrolling in Professional Semester I.** For details, see the French Off-Campus Studies Coordinator in the Department of Modern Languages.

2. **Modern Languages Education: French/Spanish**

Number of courses required for the major: 16

**Required courses:**

- French 3450 - Phonetics and Diction
- Linguistics 2300 - Introduction to Linguistics I: Phonetics and Phonology
- Linguistics 2600 - Introduction to Linguistics II: Morphology, Syntax and Semantics

**One of:**

- Spanish 3001 - Advanced Language
- Spanish 3002 - Spanish for Professional Contexts

Six additional courses (18.0 credit hours) in French

Six additional courses (18.0 credit hours) in Spanish

Participation in the Department's French or Spanish Visiting Student program at a French- or Spanish-language university.

Five of the above courses (15.0 credit hours) must be at the 3000/4000 level

**Notes**

Students may **not** count either French 1000 (Beginners' French I) or Spanish 1000 (Beginners' Spanish I) among the minimum requirements for the major.

Students registering in introductory language courses must complete the Student Information Form to determine whether they are registered in the appropriate course. Students may be asked to write the Student Placement Test. Advanced placement may be granted to students who have acquired language skills outside of a formal academic environment. Please refer to [www.ulethbridge.ca/artsci/modern-languages/department-modern-languages-placement-policy](http://www.ulethbridge.ca/artsci/modern-languages/department-modern-languages-placement-policy) for more information.

The French Visiting Student Program (FVSP) or Spanish Visiting Student Program (SVSP) includes the immersion course (French 2250 or Spanish 2250) and at least two courses taught in French or Spanish at a host university. These courses may be used to meet course requirements in the major if they transfer as French or Spanish courses. **It is recommended that students successfully complete French 2250 or Spanish 2250 before enrolling in Professional Semester I.** For details, see the French or Spanish Off-Campus Studies Coordinator in the Department of Modern Languages.

g. **Music Education**

Students may meet the Music Education major requirements by completing the major in Music.

Number of courses required for the major: 16

**Required courses:****History**

- Music 2080 - Western Art Music
- Music 2090 - The Eighteenth Century

**One of:**

- Music 3090 - The Medieval Era to the Early Baroque
- Music 3480 - The Nineteenth Century
- Music 3580 - The Twentieth and Twenty-first Centuries



**Theory****Four of:**

- Music 1160 - Foundations of Music Theory
- Music 2260 - Harmony in the Common Practice
- Music 3360 - Chromatic Harmony
- Music 3460 - Harmony and Form in Jazz and Popular Music
- Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music
- Music 4660 - Form and Analysis

**Musicianship Skills**

- <sup>1</sup> Music 2161 - Musicianship Skills I
- <sup>1</sup> Music 2261 - Musicianship Skills II
- <sup>1</sup> Music 3361 - Musicianship Skills III
- <sup>1</sup> Music 3461 - Musicianship Skills IV

**Applied**

- Music Studio 2148 - Studio I - Instrument
- Music Studio 2248 - Studio II - Instrument
- Music Studio 3348 - Studio III - Instrument
- Music Studio 3448 - Studio IV - Instrument

**Conducting**

- Music 3500 - Conducting I
- Four Music Ensemble Activity courses (6.0 credit hours)

**Notes**

<sup>1</sup> 1.5 credit hours

**Note:** Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

Major Focus	Music Ensemble Activity
Studio wind & percussion	Wind Orchestra
Studio voice	University Singers or Women's Chorus
Studio pianist & guitarist	Music Ensemble Activity 2450, Music Ensemble Activity 2451, and a minimum of two terms (1.5 credit hours each) of: Contemporary and Electroacoustics Ensemble Jazz Ensemble Percussion Ensemble University Singers Wind Orchestra Women's Chorus
Studio string	Orchestra (or through other approved ensemble or Independent Study by permission of the Department of Music)

Composition is not available as a Studio area in the B.A./B.Ed.

Each Music Ensemble Activity counts as one-half course (i.e. 1.5 credit hours).

Students with an interest in Music Education are also referred to the **Bachelor of Music/Bachelor of Education (p. 277)**.

#### h. **Physical Education**

Students may meet the Physical Education major requirements by completing the major in Kinesiology for the B.A., the major in Kinesiology for the B.Sc., or the General Major in the Social Sciences.

##### 1. **Kinesiology (B.A.)**

Number of courses required for the major: 13

**Required courses:**

- Kinesiology 1000 - Wellness and Physical Activity
- Kinesiology 2110 - Biophysical Perspectives
- Kinesiology 2130 - Humanities Perspectives
- Kinesiology 2140 - Psychological Perspectives
- Kinesiology 2150 - Sociological Perspectives
- Kinesiology 2200 - Research Methodologies
- Kinesiology 2600 - Functional Human Anatomy
- <sup>1</sup> Physical Activity 2130 - Educational Dance
- <sup>1</sup> Physical Activity 2135 - Educational Gymnastics

**One of:**

Kinesiology 2160 - Management Perspectives  
Kinesiology 3300 - Leadership Skills Development

One course (3.0 credit hours) in Kinesiology at the 3000/4000 level with a Humanities or Social Science designation

One course (3.0 credit hours) in Kinesiology at the 4000 level with a Humanities or Social Science designation, excluding Kinesiology 4980 (Applied Study) and Kinesiology 4990 (Independent Study)

Two courses (6.0 credit hours) in Physical Activity at the 3000 level

**Notes**

<sup>1</sup>Physical Activity 2130 and 2135 are half courses (1.5 credit hours each).

To determine if a given course in Kinesiology has a Humanities or Social Science designation, see List I: Fine Arts and Humanities Courses and List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**2. Kinesiology (B.Sc.)**

Number of courses required for the major: 16

**Required courses:**

Biology 1010 - Cellular Basis of Life  
Kinesiology 1000 - Wellness and Physical Activity  
Kinesiology 2200 - Research Methodologies  
Kinesiology 2600 - Functional Human Anatomy  
Kinesiology 2610 - Human Physiology  
Kinesiology 2650 - Functional Biomechanics  
Kinesiology 3610 - Exercise Physiology  
Kinesiology 3630 - Growth, Development and Aging  
Kinesiology 3650 - Biomechanics

<sup>1</sup>Physical Activity 2130 - Educational Dance

<sup>1</sup>Physical Activity 2135 - Educational Gymnastics

Physics 1050 - Introduction to Biophysics

**One of:**

Chemistry 1000 - General Chemistry I  
Chemistry 1110 - Chemistry for Life Sciences I

**One of:**

Kinesiology 2160 - Management Perspectives  
Kinesiology 3300 - Leadership Skills Development

One course (3.0 credit hours) in Kinesiology at the 4000 level with a Science designation, excluding

Kinesiology 4980 (Applied Study) and Kinesiology 4990 (Independent Study)

Two courses (6.0 credit hours) in Physical Activity at the 3000 level

**Notes**

<sup>1</sup>Physical Activity 2130 and 2135 are half courses (1.5 credit hours each).

To determine if a given course in Kinesiology has a Science designation, see List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**3. General Major in the Social Sciences**

Number of courses required for the major: 16

**Required courses:**

Seven courses (21.0 credit hours) in Kinesiology (designated as Social Science), including the following:

Kinesiology 1000 - Wellness and Physical Activity  
Kinesiology 2140 - Psychological Perspectives  
Kinesiology 2150 - Sociological Perspectives

**One of:**

Kinesiology 2160 - Management Perspectives  
Kinesiology 3300 - Leadership Skills Development

Four courses (12.0 credit hours) in each of two other disciplinary streams chosen from the following list:

Anthropology – all courses  
Archaeology – all courses designated Social Science  
Economics – all courses designated Social Science  
Geography – all courses designated Social Science  
History – all courses  
Indigenous Studies - all courses (Blackfoot and Cree may not be included)  
Political Science – all courses designated Social Science  
Psychology – all courses designated Social Science  
Sociology – all courses  
Women and Gender Studies – all courses designated Social Science

**One of (Quantitative Methods):**

Economics 2900 - Economics and Business Statistics  
 Geography 2700 - Geographical Data and Analysis  
 Psychology 2030 - Methods and Statistics B  
 Sociology 2130 - Quantitative Research Practice  
 Statistics 2780 - Statistical Inference

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level. Two courses (6.0 credit hours) must be Kinesiology.

**Notes**

To determine if a given course in a disciplinary stream has a Social Science designation, see List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

The Quantitative Methods courses have prerequisites which may or may not be included in the major.

Students are strongly encouraged to choose Social Science disciplines which are school subject areas or are taught in the provincial curriculum.

**i. Science Education**

Students may meet the Science Education major requirements by completing the major in Biological Sciences, Chemistry, Geography (Physical Geography), Physics, or the General Major in the Sciences.

**I. Biological Sciences**

Number of courses required for the major: 16

**Required courses:**

Biochemistry 2000 - Introductory Biochemistry  
 Biology 1010 - Cellular Basis of Life  
 Biology 1020 - Diversity of Life  
 Biology 2000 - Principles of Genetics  
 Biology 2150 - Biostatistics  
 Biology 2200 - Principles of Ecology  
 Biology 2300 - Cell Biology  
 Biology 3300 - Evolution  
 Chemistry 1000 - General Chemistry I  
 Chemistry 2000 - General Chemistry II  
 Chemistry 2500 - Organic Chemistry I

**One of:**

Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I

**One of:**

Physics 1000 - Introduction to Physics I  
 Physics 1050 - Introduction to Biophysics (preferred)

<sup>1</sup> Three courses (9.0 credit hours) in Biology at the 3000 level, including one course (3.0 credit hours) from each of the following subfield lists:

**List 1 - Cellular and Molecular Biology**

Biochemistry 3100 - Proteins, Enzymes and Nucleic Acids  
 Biochemistry 3700/Neuroscience 3700 - Introduction to Bioinformatics  
 Biology 3000 - Gene Expression and Regulation  
 Biology 3005 - Genomes  
 Biology 3110 - Cell Signalling  
 Biology 3210 - Experimental Methods in Molecular and Cellular Biology  
 Biology 3400 - Principles of Microbiology

**List 2 - Organismal Biology**

Biology 3310 - Developmental Biology  
 Biology 3420 - Animal Physiology  
 Biology 3460 - Plant Physiology  
 Biology 3520 - Invertebrate Zoology  
 Biology 3530 - Vertebrate Zoology  
 Biology 3560 - Integrative Plant Biology

**List 3 - Ecology and Evolutionary Biology**

Biology 3630 - Field Biology  
 Biology 3660 - Field Botany  
 Biology 3700 - Ecosystem Ecology  
 Biology 3710 - Population Biology  
 Biology 3720 - Community Ecology

**Recommended course:**

Environmental Science 2000 - Fundamentals of Environmental Science

**Notes**

<sup>1</sup>Topics courses (Biology 3850) may be assigned to one of the Biological Sciences lists at the time of scheduling. Please refer to the current term timetable.

**Concentration: Research Internship (optional)**

Students completing the major in Biological Sciences for the B.Sc./B.Ed. may declare a Research Internship Concentration.

**Admission Requirements:**

Students interested in the Research Internship option will need to qualify according to one of the following routes:

## a. Direct Entry

Students applying to the Research Internship Concentration with fewer than four university courses completed will be considered direct entry applicants. Direct entry applicants must present a minimum 80% grade in Biology 30 and a minimum 75% admission average (see **Faculty of Arts and Science, Admission, p. 89**).

## b. Delayed Entry

Students applying to the Research Internship Concentration after completing four or more university courses will be considered delayed entry applicants. Delayed entry applicants must present one of Biology 1010 or Biology 1020 and a minimum GPA of 3.00 (calculated on all completed university-level courses).

Fulfillment of one of the above admission routes does not guarantee admission due to a limited number of seats. Students may be ranked according to GPA, and may be asked for a *Letter of Intent*, references, and/or an interview.

**Continuation:**

Students admitted to the Research Internship Concentration must maintain a minimum cumulative GPA of 3.00. Students who fall below 3.00 will be removed from the concentration.

**Required courses:**

Biology 2001 - Research Internship I: Scientific Discovery

Biology 2002 - Research Internship II: Scientific Data and Analysis

Biology 3001 - Research Internship III: Communicating Science

**One of:**

Biology 4995 - Undergraduate Thesis (6.0 credit hours)

Two Independent Study courses (6.0 credit hours) in Biology at the 3000/4000 level

**Notes**

Students may need to complete more than the minimum number of courses for their degree to complete the concentration.

Students are encouraged to complete additional research intensive activities (Applied Studies, Independent Studies, Co-operative Education).

For students who complete all requirements, the Research Internship Concentration will be acknowledged on the official academic transcript.

**Concentration: Biomedical Sciences (optional)**

Students completing the major in Biological Sciences for the B.Sc./B.Ed. may declare a Concentration in Biomedical Sciences.

**Required courses:**

Biology 3110 - Cell Signalling

**One of:**

Biology 3000 - Gene Expression and Regulation

Biology 3005 - Genomes

**One of:**

Biology 3310 - Developmental Biology

Biology 3420 - Animal Physiology

**Two of:**

Biology 4130 - Medical Genomics

Biology 4140 - RNA Biology

Biology 4155 - Cannabis and Health

Biology 4180 - Natural Products

Biology 4230 - Molecular and Cellular Biology of Cancer

Biology 4440 - Toxicology

**Notes**

Students may not double count courses required for the Concentration in Biomedical Sciences in fulfilling requirements for the major. In such cases, students must select another option. Students may need to complete more than the minimum number of courses for their degree to complete the concentration.

For students who complete all requirements with a GPA of at least 3.00 calculated on the concentration courses, the Concentration in Biomedical Sciences will be acknowledged on the official academic transcript.

**Concentration: Conservation and Biodiversity (optional)**

Students completing the major in Biological Sciences for the B.Sc./B.Ed. may declare a Concentration in Conservation and Biodiversity.

**Required courses:**

Biology 4605 - Conservation Biology

**One of:**

Biology 3520 - Invertebrate Zoology

Biology 3530 - Vertebrate Zoology

Biology 3560 - Integrative Plant Biology

**Three of:**

Biology 3630 - Field Biology or Biology 3660 - Field Botany

Biology 3700 - Ecosystem Ecology

Biology 3710 - Population Biology

Biology 3720 - Community Ecology

Biology 4210 - Environmental Genomics

Biology 4700 - Molecular Ecology

Biology 4740 - Behavioural Ecology

<sup>1</sup> Political Science 3260 - Canadian Public Policy or Philosophy 2236 - Environmental Philosophy or Economics 3220 - Environmental Economics<sup>1</sup>

<sup>2</sup> Biology 3990 - Independent Study or Biology 4990 - Independent Study<sup>2</sup>

**Notes**

<sup>1</sup> Prerequisite required that is not part of the major.

<sup>2</sup> One Independent Study may be used as part of the concentration provided (1) it is clearly related to Conservation and Biodiversity and (2) it is approved by the Chair of the Department of Biological Sciences.

Students may not double count courses required for the Concentration in Conservation and Biodiversity in fulfilling requirements for the major. In such cases, students must select another option. Students may need to complete more than the minimum number of courses for their degree to complete the concentration.

For students who complete all requirements, the Concentration in Conservation and Biodiversity will be acknowledged on the official academic transcript.

**2. Chemistry**

Number of courses required for the major: 15

**Required courses:**

Chemistry 1000 - General Chemistry I

Chemistry 2000 - General Chemistry II

Chemistry 2410 - Analytical Chemistry I

Chemistry 2500 - Organic Chemistry I

Chemistry 2600 - Organic Chemistry II

Chemistry 2740 - Physical Chemistry I

Mathematics 1410 - Elementary Linear Algebra

Physics 2000 - Introduction to Physics II

**One of:**

Mathematics 1560 - Calculus I

Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II

Mathematics 2565 - Accelerated Calculus II (recommended)

**One of:**

Physics 1000 - Introduction to Physics I (recommended)

Physics 1050 - Introduction to Biophysics

<sup>1</sup> Engineering 2060 - Engineering Mechanics

**Four of:**

Biochemistry 2000 - Introductory Biochemistry  
 Biochemistry 3100 - Proteins, Enzymes and Nucleic Acids  
 Biochemistry 3300 - Bioenergetics and Metabolism  
 Chemistry 3250 - Contemporary Chemistry  
 Chemistry 3410 - Analytical Chemistry II  
 Chemistry 3730 - Physical Chemistry II  
 Chemistry 3830 - Inorganic Chemistry I  
 Chemistry 3840 - Inorganic Chemistry II

**Recommended course:**

Biology 1010 - Cellular Basis of Life

**Notes**

<sup>1</sup> Prerequisite required: Engineering 2000

The major in Chemistry for the Combined Degrees program is not accredited by the Canadian Society of Chemistry, nor is it sufficient for pursuing graduate studies in Chemistry.

Chemistry courses are organized in sequences and must be taken in the proper order. In addition, several of the 3000-level courses are offered only in alternate years. Students are advised to seek help in planning their programs from the Departmental Advisor or from any faculty member in the Department of Chemistry and Biochemistry at an early stage of their studies.

3. **Geography**

Number of courses required for the major: 16

**Required courses:**

Biology 1020 - Diversity of Life  
 Chemistry 1000 - General Chemistry I  
 Geography 1000 - Introduction to Physical Geography  
 Geography 2030 - Geomorphology  
 Geography 2300 - Weather and Climate  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I

**One of:**

Physics 1000 - Introduction to Physics I  
 Physics 1050 - Introduction to Biophysics

**One of:**

Geography 2065 - Physical Geology  
 Geography 2090 - Biogeography

**One of:**

Geography 3710 - Field Techniques in the Earth Sciences  
 Geography 3720 - Remote Sensing  
 Geography 3740 - Geographical Information Systems

**Two of:**

Geography 3060 - Glaciology and Glacial Geomorphology  
 Geography 3080 - Soils  
 Geography 3300 - Microclimatology  
 Geography 3400 - Hydrology

**One of:**

Geography 4065 - Irrigation Science  
 Geography 4400 - Advanced Hydrology  
 Geography 4725 - Advanced Remote Sensing

Two additional lab-based courses (6.0 credit hours) in Biology, Chemistry, or Physics

**Recommended courses:**

Biology 1010 - Cellular Basis of Life  
 Environmental Science 2000 - Fundamentals of Environmental Science

#### 4. Physics

Number of courses required for the major: 16

**Required courses:**

Mathematics 1410 - Elementary Linear Algebra

Physics 2000 - Introduction to Physics II

Physics 2020 - The Physics of Everyday Life

Physics 2120 - Introduction to Physics III

Physics 2130 - Waves, Optics and Sound

Physics 2150 - Quantum Mechanics I

Physics 2925 - Introduction to Experimental Physics

Physics 3750 - Contemporary Physics

**One of:**

Mathematics 1560 - Calculus I

Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II

Mathematics 2565 - Accelerated Calculus II (recommended)

**One of:**

Mathematics 2570 - Calculus III

Mathematics 2575 - Accelerated Calculus III (recommended)

**One of:**

Physics 1000 - Introduction to Physics I

Physics 1050 - Introduction to Biophysics

<sup>1</sup> Engineering 2060 - Engineering Mechanics

**One of:**

Astronomy 2020 - Modern Astronomy

Astronomy 2070 - The Solar System

**One of:**

Biology 1010 - Cellular Basis of Life

Biology 1020 - Diversity of Life

**One of:**

Chemistry 1000 - General Chemistry I

Chemistry 1110 - Chemistry for Life Sciences I

One additional course (3.0 credit hours) in Physics, Astronomy, or Engineering

**Notes**

<sup>1</sup> Prerequisite required: Engineering 2000

Students wishing to include 3000-level Physics courses in their program should take Mathematics 2575 (Accelerated Calculus III) as part of their major or Mathematics 2580 (Calculus IV) as an elective, either of which is a prerequisite for most senior Physics courses.

It is recommended that Physics majors include courses in Biology, Chemistry, Computer Science, and Mathematics.

Since a number of senior-level Physics courses are offered only in alternate years, students are advised to plan carefully to include the desired courses. Students are strongly advised to seek help in planning their program from the Department of Physics and Astronomy.

#### 5. General Major in the Sciences

Number of courses required for the major: 16

**Required courses:**

Seven courses (21.0 credit hours) in one of Biology, Chemistry, Physical Geography or Physics

Four courses (12.0 credit hours) in one other area of Biology, Chemistry, Physical Geography, or Physics

Four courses (12.0 credit hours) in one other disciplinary stream chosen from the following list:

Archaeology – all courses designated Science

Biological Sciences – all Biology courses

Chemistry – all courses (including courses in Biochemistry)

Computer Science – all courses

Geography – all courses designated Science

Kinesiology – all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)

Mathematics – all courses (including courses in Statistics)

Neuroscience – all courses

Physics – all courses (including courses in Astronomy and Engineering)

Psychology – all courses designated Science

**One of (Science in Human Affairs):**

Biochemistry 2300 - Elements of Human Nutrition  
 Biology 2500 - Biology and Society  
 Environmental Science 2000 - Fundamentals of Environmental Science  
 Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences  
 Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter  
 Philosophy 3402 - Biomedical Ethics  
 Physics 2020 - The Physics of Everyday Life

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

**Notes**

To determine if a given course in a disciplinary stream has a Science designation, see List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

Some of the Science in Human Affairs courses have prerequisites which may or may not be included in the major.

Students are strongly encouraged to choose Science disciplines which are school subject areas or are taught in the provincial curriculum.

**j. Social Studies Education**

Students may meet the Social Studies Education major requirements by completing the major in Anthropology, Canadian Studies, Economics, Geography, History, Political Science, Sociology, or the General Major in the Social Sciences.

**1. Anthropology**

Number of courses required for the major: 16

**Required courses:**

Anthropology 1000 - The Anthropological Perspective  
 Anthropology 2210 - Cultures of the World (Series)  
 Anthropology 2410 - Anthropological Approaches to Prehistory  
 Anthropology 3000 - Anthropological Thought  
 Geography 2600 - Canada  
 History 2710 - Canada to 1867  
 History 2720 - Canada Since 1867  
 Political Science 2210 - Canadian Politics and Government

**One of:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

**One of:**

History 1000 - The Western World  
 History 1200 - World History

Two additional courses (6.0 credit hours) in Anthropology at the 3000 or 4000 level

Two courses (6.0 credit hours) in Anthropology at the 4000 level

Two additional courses (6.0 credit hours) in Anthropology at the 2000 level or above

**Notes**

Independent Studies courses, Applied Studies courses, and the Undergraduate Thesis may not be counted as part of the minimum requirements for the major.

**2. Canadian Studies**

Number of courses required for the major: 16

**Required core:**

English 1900 - Introduction to Language and Literature  
 English 2000 - Survey of Canadian Literature  
 Geography 2600 - Canada  
 History 2710 - Canada to 1867  
 History 2720 - Canada Since 1867  
 Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
 Political Science 2210 - Canadian Politics and Government

**One of:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics

**One of:**

History 1000 - The Western World  
 History 1200 - World History



**Two of:**

French 1000 - Beginners' French I  
 French 1100 - Beginners' French II  
 French 2001 - Intermediate Language for Immersion Graduates  
 French 2010 - Intermediate Language I  
 French 2020 - Intermediate Language II  
 French 2200 - Culture and Civilization I  
 French 2300 - Introduction to Modern Literature and Literary Analysis

**Options (Five courses from the following, including at least four courses at the 3000/4000 level):**

English 3001 - Canadian Poetry  
 English 3002 - Contemporary Canadian Drama  
 French 3001 - Advanced Language I  
 French 3200 - Culture and Civilization II (Series)  
 French 3600 - Literary Genres (Series)  
 French 4001 - Advanced Language II  
 French 4002 - Advanced Studies in Language (Series)  
 French 4600 - Seminar in Literature (Series)  
 History 3703 - History of Western Canada  
 History 3707 - Canada Since 1939  
 History 4070 - Seminars in Canadian History (Series)  
 Indigenous Studies 3500 - Indigenous Treaties in an International Context  
 Indigenous Studies 4700 - The Metis  
 Political Science 3120 - Canadian Foreign Policy  
 Political Science 3221 - The Politics of Canadian Federalism  
 Political Science 3241 - Canadian Constitutional Law: Federalism and First Nations  
 Political Science 3260 - Canadian Public Policy  
 Political Science 3280 - Canadian Political Behaviour  
 Political Science 4200 - Seminars in Canadian Politics and Government (Series)

**One of:**

Indigenous Studies 2100 - Indigenous Peoples and Law  
 Indigenous Studies 2400 - Comparative Traditional Indigenous Economies  
 Indigenous Studies 2500 - Indigenous Histories of Canada  
 Indigenous Studies 2605/English 2605 - Introduction to Indigenous Literature

**Recommended courses:**

Art History 3240 - Canadian Art History to 1960  
 Art History 3245 - Canadian Art History from 1960 to the Present  
 English 3810 - Contemporary Canadian Literature  
 Sociology 2010 - Canadian Society

**Notes**

Selected Topics courses, Applied Studies, Independent Studies, and offerings in the French 3200, French 3600, and French 4600 Series may be counted as options toward the major provided (1) they are clearly related to Canadian Studies and (2) they are approved by the Coordinator of Canadian Studies.

Students are strongly encouraged to choose Options courses which are associated with the provincial Social Studies curriculum (i.e. History, Indigenous Studies, Political Science)

Many of the options courses require prerequisites, thus students should choose courses with this in mind.

**3. Economics**

Number of courses required for the major: 16

**Required courses:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Economics 2900 - Economics and Business Statistics  
 Economics 3010 - Intermediate Microeconomic Theory  
 Economics 3012 - Intermediate Macroeconomic Theory  
 Geography 2600 - Canada  
 History 2710 - Canada to 1867  
 History 2720 - Canada Since 1867  
 Political Science 2210 - Canadian Politics and Government  
 Statistics 1770 - Introduction to Probability and Statistics

**One of:**

History 1000 - The Western World  
 History 1200 - World History

Three additional courses (9.0 credit hours) in Economics at the 3000/4000 level

Two additional courses (6.0 credit hours) in Economics

#### 4. Geography

Number of courses required for the major: 16

**Required courses:**

Environmental Science 2000 - Fundamentals of Environmental Science  
 Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography  
 Geography 2000 - World Regional Geography  
 Geography 2210 - Spatial Organization of Economic Activity  
 Geography 2535 - Introduction to Planning  
 Geography 2600 - Canada  
 Geography 2700 - Geographical Data and Analysis  
 Geography 3075 - Environmental Resources Management  
 Geography 3230 - Urban Social Geography  
 History 2710 - Canada to 1867  
 History 2720 - Canada Since 1867  
 Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
 Political Science 2210 - Canadian Politics and Government

**One of:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics

**One of:**

History 1000 - The Western World  
 History 1200 - World History

**Recommended courses:**

Archaeology 1000 - Introduction to Archaeology  
 Archaeology 3110 - Archaeology of North America  
 Geography 2030 - Geomorphology  
 Geography 2300 - Weather and Climate  
 Geography 3245 - Urbanization in Developing Countries  
 History 3703 - History of Western Canada  
 Political Science 2511 - Introduction to Political Theory

#### 5. History

Number of courses required for the major: 14

**Required courses:**

Geography 2600 - Canada  
 History 2222 - History in Practice  
 History 2710 - Canada to 1867  
 History 2720 - Canada Since 1867  
 Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
 Political Science 2210 - Canadian Politics and Government

**One of:**

History 1000 - The Western World  
 History 1200 - World History

**One of:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics

**Three of:**

Economics 3170 - Economic History of Canada  
 History 2001 - Main Themes in Ancient History  
 History 2100 - Main Themes in Medieval European History  
 History 2102 - Early Modern Europe - 1500-1750  
 History 2150 - The Politics of Europe - 1750-1914  
 History 2290 - Main Themes in East Asian History  
 History 2300 - Latin America  
 History 2500 - Themes in British Social and Political History  
 History 2600 - Main Themes in the History of the United States  
 History 2800/Women and Gender Studies 2800 - History of Women  
 Religious Studies 2500 - Christianity

Two courses (6.0 credit hours) in History at the 3000/4000 level

One course (3.0 credit hours) in History at the 4000 level, excluding History 4980 (Applied Studies) and History 4990 (Independent Study)

**6. Political Science**

Number of courses required for the major: 16

**Required courses:**

Geography 2600 - Canada  
History 2710 - Canada to 1867  
History 2720 - Canada Since 1867  
Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
Political Science 1000 - Introduction to Political Science  
Political Science 2110 - International Relations  
Political Science 2210 - Canadian Politics and Government  
Political Science 2310 - Comparative Politics and Government  
Political Science 2511 - Introduction to Political Theory

**One of:**

Economics 1010 - Introduction to Microeconomics  
Economics 1012 - Introduction to Macroeconomics

**One of:**

History 1000 - The Western World  
History 1200 - World History

Four courses (12.0 credit hours) in Political Science at the 3000/4000 level

One course (3.0 credit hours) in Political Science at the 4000 level

**Recommended courses:**

Political Science 3130 - International Political Economy  
Political Science 3221 - The Politics of Canadian Federalism  
Political Science 3280 - Canadian Political Behaviour  
Political Science 3511 - Political Thought Since 1500 (Series)  
History 3703 - History of Western Canada

**Notes**

Political Science 4980 (Applied Studies) and Political Science 4990 (Independent Study) may not be included as part of the 16-course minimum for the major; they are strongly encouraged for students taking courses beyond this minimum, however.

**7. Sociology**

Number of courses required for the major: 16

**Required courses:**

Geography 2600 - Canada  
History 2710 - Canada to 1867  
History 2720 - Canada Since 1867  
Political Science 2210 - Canadian Politics and Government  
Sociology 1000 - Introduction to Sociology  
Sociology 2100 - Research Methodology  
Sociology 2300 - Committing Sociology  
Sociology 3210 - Classical Sociological Theory  
Sociology 3220 - Contemporary Sociological Theory

**One of:**

Sociology 3110 - Survey Research  
Sociology 3120 - Qualitative Research Methods

**One of:**

History 1000 - The Western World  
History 1200 - World History

**One of:**

Economics 1010 - Introduction to Microeconomics  
Economics 1012 - Introduction to Macroeconomics  
Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

Four additional courses (12.0 credit hours) in Sociology at the 3000/4000 level

**8. General Major in the Social Sciences**

Number of courses required for the major: 16

**Required courses:**

Seven courses (21.0 credit hours) in History, including the following:

History 2710 - Canada to 1867  
History 2720 - Canada Since 1867

**One of:**

History 1000 - The Western World  
History 1200 - World History

Four courses (12.0 credit hours) in one of Economics, Geography, or Political Science (Social Science courses)

Four courses (12.0 credit hours) in one other disciplinary stream chosen from the following list:

Anthropology – all courses  
Archaeology – all courses designated Social Science  
Economics – all courses designated Social Science  
Geography – all courses designated Social Science  
Indigenous Studies - all courses (courses in Blackfoot and Cree may not be included)  
Kinesiology – all courses designated Social Science (Physical Activity courses may not be included)  
Political Science – all courses designated Social Science  
Psychology – all courses designated Social Science  
Sociology – all courses  
Women and Gender Studies – all courses designated Social Science

**One of (Quantitative Methods):**

Economics 2900 - Economics and Business Statistics  
Geography 2700 - Geographical Data and Analysis  
Psychology 2030 - Methods and Statistics B  
Sociology 2130 - Quantitative Research Practice  
Statistics 2780 - Statistical Inference

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

**Recommended courses:**

Economics 1010 - Introduction to Microeconomics  
Economics 1012 - Introduction to Macroeconomics  
Geography 2600 - Canada  
Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
Political Science 2210 - Canadian Politics and Government

**Notes**

To determine if a given course in a disciplinary stream has a Social Science designation, see List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

The Quantitative Methods courses have prerequisites which may or may not be included in the major.

Students are strongly encouraged to choose Social Science disciplines which are school subject areas or are taught in the provincial curriculum.

**e. Education Minor Requirements**

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education, Education Minors (p. 159)** for information on Education minor requirements.

**f. Education Specialization Requirements**

Students may elect to complete a specialization in addition to a major or minor, with the exception of those enrolled in the Indigenous Education major, who must complete Education 4576 - Indigenous Education Internship (Fall). Students will be eligible to receive an endorsement on their official academic transcript upon completion of a specialization.

Education students completing a major or minor may not include, in the specialization, any of the courses that are included in the minimum requirements for their major or minor.

Please refer to **Faculty of Education, Education Specializations (p. 165)** for information on Education Specialization Requirements.

**g. Academic Regulations**

In the Combined Degrees program, students divide their time between two different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.A./B.Ed. or B.Sc./B.Ed., students should be aware of the **Faculty of Arts and Science (p. 87)** regulations and the **Faculty of Education (p. 149)** regulations.

**h. Residence Requirement**

Students must complete a minimum of 30 courses at the University of Lethbridge, including 15 Education courses, and 15 courses offered by the Faculty of Arts and Science or the Faculty of Fine Arts, including at least one-half of the required courses in the major.

### i. Education Special Study Arrangements

#### *Applied Studies*

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies Program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

#### *Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.A./B.Ed. or B.Sc./B.Ed. (see **Academic Regulations, Exceeding Course Limits, p. 56**).

#### *Study Tours*

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education.

## 4. BACHELOR OF FINE ARTS - ART/BACHELOR OF EDUCATION

The Faculties of Fine Arts and Education jointly offer a 50-course (150.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Fine Arts - Art (B.F.A. - Art) and Bachelor of Education (B.Ed.). Upon successful completion of the Combined Degrees program, the student receives the B.F.A. - Art degree from the Faculty of Fine Arts and the B.Ed. degree from the Faculty of Education.

### a. Admission

Students begin in the Pre-B.F.A. - Art/B.Ed. program in the Faculty of Fine Arts where they progress toward completion of Fine Arts degree requirements and prepare to meet the admission requirements for the Faculty of Education. After completion of the minimum admission requirements for the Faculty of Education, students may apply and, if accepted, be formally enrolled in the B.F.A. - Art/B.Ed. Combined Degrees program.

Students are not officially in the Combined Degrees program until they have been admitted to both the Faculty of Fine Arts and the Faculty of Education.

Applicants are accepted to the Pre-B.F.A. - Art/B.Ed. and B.F.A. - Art/B.Ed. for the fall term only. Applicants should consult **Admission (p. 21)** for general admission requirements, policies, and deadlines.

1. Faculty of Fine Arts Admission Requirements for the Pre-B.F.A. - Art/B.Ed. and B.F.A. - Art/B.Ed.

Applicants to the Pre-B.F.A. - Art/B.Ed. and B.F.A. - Art/B.Ed. programs must meet the general admission requirements outlined in **Admission (p. 21)**.

Enrolment in these programs is limited and admission is competitive; selections are made based on the academic proficiency, as demonstrated by grade achievement.

2. Faculty of Education Admission Requirements for the B.F.A. - Art/B.Ed.

Based on the Faculty's quota system, normally a total of 216 students will be admitted to Bachelor of Education programs (Combined Degrees and After Degree) each year. Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combined Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Completion of a minimum of 14 University of Lethbridge transferable courses (42.0 credit hours), including at least five courses (15.0 credit hours) in the B.F.A. - Art major.

**Note:** Due to the sequencing of retired courses, the Faculty of Fine Arts strongly advises students to apply to the Faculty of Education for admission only after completion of three years of study in the Faculty of Fine Arts. Students who opt to apply to the Faculty of Education earlier should consult with an academic advisor in the Faculty of Fine Arts to discuss the implications entering the Faculty of Education may have on their remaining requirements in the B.F.A. - Art.

- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses taken within the terms containing the last 14 courses (42.0 credit hours). All courses must be graded.
- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all graded courses comprising the B.F.A. - Art major.
- d. Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- e. Only courses completed by the admission document deadline will be considered for admission (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Exceptions are made for the completion of Education 2500 when applicants are completing the course over the spring or summer preceding admission.

## f. Special Case Admission

Applicants who have a satisfactory academic record but who, for some reason, had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.

## g. Admission Procedures Available to Students of Aboriginal Descent

The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.

## h. Returning after Withdrawal or Required Withdrawal from the Faculty of Education

Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

**b. Faculty of Fine Arts Requirements for the 50-Course (150.0 credit hours) B.F.A. - Art/B.Ed.**

1. Completion of at least 30 courses (90.0 credit hours) from disciplines offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
2. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) on all Art, Art History, and/or Museum Studies courses.
3. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
4. Completion of at least eight Art, Art History, and/or Museum Studies courses (24.0 credit hours) at the 3000/4000 level.
5. A maximum of three Independent Studies (9.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
6. Not more than eight courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
7. Required Art, Art History, and Museum Studies Courses:

Art 2010 - Drawing Studio I

Art 2350/Indigenous Studies 2350 - Indigenous Art Studio I

Art 4048 - Senior Studio I (6.0 credit hours)

Art History 1001 - World Art Before 1400

Art History 1002 - World Art Since 1400

Art History 3001 - Theory and Methods in Art and Art History

Art History 3245 - Canadian Art History from 1960 to the Present

Art History 3270 - Global Art Since 1980

**One of (3.0 credit hours):**

Art 2060 - Media Arts (Digital Sketchbook)

Art 2061 - Media Arts (Video Sketchbook)

**One of (3.0 credit hours):**

Art 3261 - Art NOW

Art 3262 - Art NOW

**Art Studio: List I****Three of (9.0 credit hours):**

\* Art 2015 - Art Studio (Series)

Art 2005 - Print Studio (Without a Press) OR Art 2006 - Print Studio (With a Press)

Art 2023 - Painting Studio I

Art 2027 - Photography Studio I

Art 2033 - Spatial Practice I

Art 2060 - Media Arts (Digital Sketchbook) OR Art 2061 - Media Arts (Video Sketchbook)

**Art Studio: List II****Five of (15.0 credit hours):**

Art 3007 - Print Studio III

Art 3010 - Drawing Studio II

Art 3011 - Drawing Studio III

\* Art 3015 - Art Studio (Series)

Art 3023 - Painting Studio II

Art 3024 - Painting Studio III

Art 3027 - Photography Studio II

Art 3028 - Photography Studio III

Art 3033 - Spatial Practice II

Art 3034 - Spatial Practice III

Art 3035 - Social Practice in Art

Art 3062 - Media Arts III

Art 3350/Indigenous Studies 3350 - Indigenous Art Studio II

Art 3355/Indigenous Studies 3355 - Landmarks

### Art History: List A

#### Two of (6.0 credit hours):

Art History 3200 - Issues in 19th-Century Art and Culture  
 Art History 3215 - 20th-Century Art History to 1945  
 Art History 3220 - Art from 1945 to 1980  
 Art History 3240 - Canadian Art History to 1960  
 Museum Studies 2900 - Introduction to Museum Studies

### Art History: List B

#### One of (3.0 credit hours):

Art History 3151 - Art History (Series)  
 Art History 3152 - Indigenous Art History (Series)  
 Art History 3850 - Topics in Art History  
 Art History 4150 - Art History (Series)  
 Museum Studies 3850 - Topics in Museum Studies  
 Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display  
 Museum Studies 4000 - Museum Studies Internship

*\*A student may complete multiple offerings of Art 2015 and/or Art 3015 to meet degree requirements.*

### c. Faculty of Education Requirements for the 50-Course (150.0 credit hours) B.F.A. - Art/B.Ed.

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course

Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, school jurisdictions and schools require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

- a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

Education 4362 - Concepts of Childhood in the History of Education

Education 4380 - Developing a Philosophy of Education

Education 4381 - Ethics of Teaching

Education 4391 - Seminar in Educational Foundations (Series)

- b. One appropriate Independent Study.

3. Maintain a program GPA of 2.50 in Education courses.
4. Completion of the appropriate Education major as defined by the program.
5. Maintenance of a program GPA of 2.50 in the appropriate Education major.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

### d. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

### e. Academic Regulations

In the Combined Degrees program, students divide their time between two different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.F.A. - Art/B.Ed., students should be aware of the **Faculty of Education (p. 149)** regulations and **Faculty of Fine Arts (p. 167)** regulations.

### f. Education Minor Requirements

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education**,

**Education Minors (p. 159)** for information on Education minor requirements.

**g. Residence Requirement**

Students must complete a minimum of 30 courses (90.0 credit hours) at the University of Lethbridge, including 15 Education courses, and 15 courses offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education, including a minimum of seven courses in Art, Art History, and/or Museum Studies. Students should note that the residence requirement for the B.F.A. - Art/B.Ed. is subject to the Faculty of Fine Arts transfer policy. If a student withdraws from the B.F.A. - Art/B.Ed. and is admitted to a program offered by the Faculty of Arts and Science, transfer credit will be reassessed based on the Faculty of Arts and Science transfer policy.

**h. Education Special Study Arrangements**

*Applied Studies*

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, the Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

*Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.F.A. - Art/B.Ed. (see **Academic Regulations, Exceeding Course Limits, p. 56**).

*Study Tours*

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education (see Student Program Services for policies and procedures governing Study Tours).

**5. BACHELOR OF FINE ARTS - DRAMATIC ARTS/BACHELOR OF EDUCATION**

The Faculties of Fine Arts and Education jointly offer a 50-course (150.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Fine Arts - Dramatic Arts (B.F.A. - Dramatic Arts) and Bachelor of Education (B.Ed.). Upon successful completion of the Combined Degrees program, the student receives the B.F.A. - Dramatic Arts degree from the Faculty of Fine Arts and the B.Ed. degree from the Faculty of Education.

**a. Admission**

Students begin in the Pre-B.F.A. - Dramatic Arts/B.Ed. program in the Faculty of Fine Arts, where they progress toward completion of Fine Arts degree requirements and prepare to meet the admission requirements for the Faculty of Education. After completion of the minimum admission requirements for the Faculty of Education, students may apply and, if accepted, be formally enrolled in the B.F.A. - Dramatic Arts/B.Ed. Combined Degrees program.

Students are not officially in the Combined Degrees program until they have been admitted to both the Faculty of Fine Arts and the Faculty of Education.

Applications are accepted for the Pre-B.F.A. - Dramatic Arts/B.Ed. and B.F.A. - Dramatic Arts/B.Ed. programs for the fall term only. Applicants should consult **Admission (p. 21)** for general admission requirements, policies, and deadlines.

**1. Faculty of Fine Arts Admission Requirements for the Pre-B.F.A. - Dramatic Arts/B.Ed. and B.F.A. - Dramatic Arts/B.Ed.**

Applicants to the Pre-B.F.A. - Dramatic Arts/B.Ed. and B.F.A. - Dramatic Arts/B.Ed. programs must meet the general admission requirements outlined in **Admission (p. 21)**.

Enrolment in these programs is limited and admission is competitive; selections are made based on academic proficiency, as demonstrated by grade achievement.

**2. Faculty of Education Admission Requirements for the B.F.A. - Dramatic Arts/B.Ed.**

Based on the Faculty's quota system, normally a total of 216 students in all programs will be admitted to Bachelor of Education programs (Combined Degrees and After Degree) each year. Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combined Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Completion of a minimum of 14 University of Lethbridge or transferable courses (42.0 credit hours), including at least five courses (15.0 credit hours) in the B.F.A. - Dramatic Arts major.

**Note:** Due to the sequencing of required courses, the Faculty of Fine Arts strongly advises students to apply to the Faculty of Education for admission only after completion of three years of study in the Faculty of Fine Arts. Students who opt to apply to the Faculty of Education earlier should consult with an academic advisor in the Faculty of Fine Arts to discuss the implications entering the Faculty of Education may have on their remaining requirements in the B.F.A. - Dramatic Arts.



- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses taken within the terms containing the last 14 courses (42.0 credit hours). All courses must be graded.
- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all graded courses comprising the B.F.A. - Dramatic Arts major
- d. Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- e. Only courses completed by the admission document deadline will be considered for admission (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Exceptions are made for the completion of Education 2500 when applicants are completing the course over the spring or summer preceding admission.
- f. Special Case Admission  
Applicants who have a satisfactory academic record but who, for some reason, had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.
- g. Admission Procedures Available to Students of Aboriginal Descent  
The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.
- h. Returning after Withdrawal or Required Withdrawal from the Faculty of Education  
Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

**b. Faculty of Fine Arts Requirements for the 50-Course B.F.A. - Dramatic Arts/B.Ed.**

- 1. Completion of at least 30 courses (90.0 credit hours) from disciplines offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
- 2. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) on all Drama courses.
- 3. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
- 4. Completion of at least 10 Drama courses at the 3000/4000 level.
- 5. A maximum of three Independent Studies (9.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
- 6. Not more than eight courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).

**Required courses:**

Drama 1000 - Introduction to Dramatic Arts  
 Drama 2010 - Performance Fundamentals  
 Drama 2100 - Play Reading and Analysis  
 Drama 2120 - History and Development of Theatre I  
 Drama 2130 - History and Development of Theatre II  
 Drama 2310 - Acting I  
 Drama 2420 - Directing I  
 Drama 2810 - Introduction to Stagecraft  
 Drama 3100 - Theatre in Performance  
 Drama 3420 - Directing II  
 Drama 3600 - Drama Portfolio II  
 Drama 3611 - Advanced Stagecraft I

**One of:**

Drama 2320 - Voice I  
 Drama 2340 - Movement I  
 Drama 2510 - Theatre for Young Audiences I  
 Drama 2740 - Devised Theatre I

**One of:**

Drama 3130 - Canadian Theatre  
 Drama 3150 - Theatre Studies (Series)  
 Drama 3151 - Play Reading and Analysis II

### Drama 3160 - Dramaturgy

Seven elective Drama courses (21.0 credit hours) including five at the 3000/4000 level

One elective (3.0 credit hours) from the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education

#### c. Faculty of Education Requirements for the 50-Course B.F.A. - Dramatic Arts/B.Ed.

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course

Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, school jurisdictions and schools require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

- a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

Education 4362 - Concepts of Childhood in the History of Education

Education 4380 - Developing a Philosophy of Education

Education 4381 - Ethics of Teaching

Education 4391 - Seminar in Educational Foundations (Series)

- b. One appropriate Independent Study.

3. Maintain a program GPA of 2.50 in Education courses.
4. Completion of the appropriate Education major as defined by the program.
5. Maintenance of a program GPA of 2.50 in the appropriate Education major.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

#### d. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

#### e. Academic Regulations

In the Combined Degrees program, students divide their time between different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.F.A. - Dramatic Arts/B.Ed., students should be aware of the **Faculty of Education (p. 149)** regulations and **Faculty of Fine Arts (p. 167)** regulations.

#### f. Education Minor Requirements

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education, Education Minors (p. 159)** for information on Education minor requirements.

#### g. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge, including 15 Education courses, and 15 courses offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education, including a minimum of seven courses in Drama. Students should note that the residence requirement for the B.F.A. - Dramatic Arts/B.Ed. is subject to the Faculty of Fine Arts transfer policy. If a student withdraws from the B.F.A. - Dramatic Arts/B.Ed. and is admitted to a program offered by the Faculty of Arts and Science, transfer credit will be reassessed based on the Faculty of Arts and Science transfer policy.

#### h. Education Special Study Arrangements

##### Applied Studies

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

*Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.F.A. - Dramatic Arts/B.Ed. (see **Academic Regulations, Exceeding Course Limits, p. 56**).

*Study Tours*

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education (see Student Program Services for policies and procedures governing Study Tours).

## 6. BACHELOR OF FINE ARTS - NEW MEDIA/BACHELOR OF EDUCATION

The Faculties of Fine Arts and Education jointly offer a 50-course (150.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Fine Arts - New Media (B.F.A. - New Media) and Bachelor of Education (B.Ed.). Upon successful completion of the Combined Degrees program, the student receives the B.F.A. - New Media degree from the Faculty of Fine Arts and the B.Ed. degree from the Faculty of Education.

### a. Admission

Students begin in the Pre-B.F.A. - New Media/B.Ed. program in the Faculty of Fine Arts, where they progress toward completion of Fine Arts degree requirements and prepare to meet the admission requirements for the Faculty of Education. After completion of the minimum admission requirements for the Faculty of Education, students may apply and, if accepted, be formally enrolled in the B.F.A. - New Media/B.Ed. Combined Degrees program.

Students are not officially in the Combined Degrees program until they have been admitted to both the Faculty of Fine Arts and the Faculty of Education.

Applications are accepted for the Pre-B.F.A. - New Media/B.Ed. and B.F.A. - New Media/B.Ed. programs for the fall term only. Applicants should consult **Admission (p. 21)** for general admission requirements, policies, and deadlines.

1. Faculty of Fine Arts Admission Requirements for the Pre-B.F.A. - New Media/B.Ed. and B.F.A. - New Media/B.Ed.

Applicants to the Pre-B.F.A. - New Media/B.Ed. and B.F.A. - New Media/B.Ed. programs must meet the general admission requirements outlined in **Admission (p. 21)**.

Enrolment in these programs is limited and admission is competitive; selections are made based on academic proficiency, as demonstrated by grade achievement.

2. Faculty of Education Admission Requirements for the B.F.A. - New Media/B.Ed.

Based on the Faculty's quota system, normally a total of 216 students in all programs will be admitted to Bachelor of Education programs (Combined Degrees and After Degree) each year. Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combined Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Completion of a minimum of 14 University of Lethbridge or transferable courses (42.0 credit hours), including at least five courses (15.0 credit hours) in B.F.A. - New Media major.

**Note:** Due to the sequencing of required courses, the Faculty of Fine Arts strongly advises students to apply to the Faculty of Education for admission only after completion of three years of study in the Faculty of Fine Arts. Students who opt to apply to the Faculty of Education earlier should consult with an academic advisor in the Faculty of Fine Arts to discuss the implications entering the Faculty of Education may have on their remaining requirements in the B.F.A. - New Media.

- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses taken within the terms containing the last 14 courses (42.0 credit hours). All courses must be graded.
- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all graded courses comprising the B.F.A. - New Media major
- d. Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- e. Only courses completed by the admission document deadline will be considered for admission (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Exceptions are made for the completion of Education 2500 when applicants are completing the course over the spring or summer preceding admission.
- f. Special Case Admission

Applicants who have a satisfactory academic record but who, for some reason, had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.

- g. Admission Procedures Available to Students of Aboriginal Descent

The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.

h. Returning after Withdrawal or Required Withdrawal from the Faculty of Education

Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

**b. Faculty of Fine Arts Requirements for the 50-Course (150.0 credit hours) B.F.A. - New Media/B.Ed.**

1. Completion of at least 30 courses (90.0 credit hours) from disciplines offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
2. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) on all courses from the Department of New Media (NMED and CINE).
3. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
4. Completion of at least eight New Media courses (24.0 credit hours) at the 3000/4000 level.
5. A maximum of three Independent Studies (9.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
6. Not more than eight courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
7. Required Courses:

Art 2033 - Spatial Practice I  
 New Media 1000 - Introduction to New Media  
 New Media 2005 - Design Fundamentals for New Media  
 New Media 2010 - Visual Communications for New Media  
 New Media 2030 - Digital Video Production  
 New Media 2150 - Memes, Influencers, and Digital Convergence  
 New Media 3030 - 3-D Computer Modelling and Animation  
 New Media 3150 - Seminar in New Media Studies  
 New Media 3380 - Programming for Artists  
 New Media 3420 - Narrative for New Media  
 New Media 3520 - Web Design and Development  
 New Media 3680 - Interaction Design  
 New Media 3900 - Portfolio and Professional Practice

**Five of:**

Art 2060 - Media Arts (Digital Sketchbook)  
 Art 2061 - Media Arts (Video Sketchbook)  
 New Media 3040 - Colour Theory and Digital Photo Manipulation  
 \*New Media 3110/Cinema 3110 - Postproduction and Visual Effects  
 New Media 3310 - Game Design: Theory and Practice  
 New Media 3640 - Character Animation I  
 New Media 3700 - Event and Exhibition Design  
 New Media 3720 - The Dynamic Web  
 New Media 3810 - Expanded Cinema  
 New Media 3820 - Information Design  
 New Media 4420/Cinema 4420 - Screenwriting  
 New Media 4520 - Advanced Web Design  
 New Media 4820/Cinema 4820 - Writing for Comedy  
 New Media 4830 - Theory and Practice of Motion Capture  
 Music 2500 - Introduction to Music Technology  
 Art Studio elective

**One of:**

Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400

**Two of:**

New Media 3250 - Media, Advertising, and Consumer Culture  
 New Media 3300 - Theory and Aesthetics of Digital Games  
 New Media 3550/Cinema 3550 - History of Animation  
 New Media 3560 - Popular Narrative  
 New Media 3650 - Modern Media, War and Propaganda

One New Media elective (3.0 credit hours) at the 3000/4000 level

\*Prerequisite required: Cinema 1000

**c. Faculty of Education Requirements for the 50-Course (150.0 credit hours) B.F.A. - New Media/B.Ed.**

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course

Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, school jurisdictions and schools require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

Education 4362 - Concepts of Childhood in the History of Education

Education 4380 - Developing a Philosophy of Education

Education 4381 - Ethics of Teaching

Education 4391 - Seminar in Educational Foundations (Series)

b. One appropriate Independent Study.

3. Maintain a program GPA of 2.50 in Education courses.

4. Completion of the appropriate Education major as defined by the program.

5. Maintenance of a program GPA of 2.50 in the appropriate Education major.

6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

#### d. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

#### e. Academic Regulations

In the Combined Degrees program, students divide their time between two different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.F.A. - New Media/B.Ed., students should be aware of the **Faculty of Education (p. 149)** regulations and **Faculty of Fine Arts (p. 167)** regulations.

#### f. Education Minor Requirements

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education, Education Minors (p. 159)** for information on Education minor requirements.

#### g. Residence Requirement

Students must complete a minimum of 30 courses (90.0 credit hours) at the University of Lethbridge, including 15 Education courses, and 15 courses offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education, including a minimum of seven courses in New Media. Students should note that the residence requirement for the B.F.A. - New Media/B.Ed. is subject to the Faculty of Fine Arts transfer policy.

#### h. Education Special Study Arrangements

##### *Applied Studies*

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, the Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

##### *Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.F.A. - New Media/B.Ed. (see **Academic Regulations, Exceeding Course Limits, p. 56**).

### Study Tours

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education (see Student Program Services for policies and procedures governing Study Tours).

## 7. BACHELOR OF MUSIC/BACHELOR OF EDUCATION

The Faculties of Fine Arts and Education jointly offer a 52-course (156.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Music (B.Mus.) and Bachelor of Education (B.Ed.). Upon successful completion of the Combined Degrees program, the student receives the B.Mus. degree from the Faculty of Fine Arts and the B.Ed. degree from the Faculty of Education.

### a. Admission

Students begin in the Pre-B.Mus./B.Ed. program in the Faculty of Fine Arts, where they progress toward completion of Fine Arts degree requirements and prepare to meet the admission requirements for the Faculty of Education. After completion of the minimum admission requirements for the Faculty of Education, students may apply and, if accepted, be formally enrolled in the B.Mus./B.Ed. Combined Degrees program.

Students are not officially in the Combined Degrees program until they have been admitted to both the Faculty of Fine Arts and the Faculty of Education.

Applications are accepted for the Pre-B.Mus./B.Ed. and B.Mus./B.Ed. programs for the fall term only. Applicants should consult **Admission (p. 21)** for general admission requirements, policies, and deadlines.

#### 1. Faculty of Fine Arts Admission Requirements for the Pre-B.Mus./B.Ed. and B.Mus./B.Ed.

In addition to the general admission requirements outlined in **Admission (p. 21)**, applicants to the Pre-B.Mus./B.Ed. and B.Mus./B.Ed. programs must successfully audition for Music Studio by the appropriate decision document deadline (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Audition procedures are indicated within **Fine Arts, Admission (p. 168)**.

Enrolment in these programs is limited and admission is competitive; selections are made based on the following:

- a. Academic proficiency, as demonstrated by grade achievement; and
- b. Successful audition.

#### 2. Faculty of Education Admission Requirements for the B.Mus./B.Ed.

Based on the Faculty's quota system, normally a total of 216 students will be admitted to Bachelor of Education programs (Combined Degrees and After Degree) each year. Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combined Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Completion of a minimum of 14 University of Lethbridge or transferable courses (42.0 credit hours), including at least five courses (15.0 credit hours) in B.Mus. major.

**Note:** Due to the sequencing of required courses, the Faculty of Fine Arts strongly advises students to apply to the Faculty of Education for admission only after completing of three years of study in the Faculty of Fine Arts. Students who opt to apply to the Faculty of Education earlier should consult with an academic advisor in the Faculty of Fine Arts to discuss the implications entering the Faculty of Education may have on their remaining requirements in the B.Mus.

- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses taken within the terms containing the last 14 courses (42.0 credit hours). All courses must be graded.
- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all graded courses comprising the B.Mus. major.
- d. Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- e. Only courses completed by the admission document deadline will be considered for admission (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Exceptions are made for the completion of Education 2500 when applicants are completing the course over the spring or summer preceding admission.
- f. Special Case Admission

Applicants who have a satisfactory academic record but who, for some reason, had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.

- g. Admission Procedures Available to Students of Aboriginal Descent

The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.

- h. Returning after Withdrawal or Required Withdrawal from the Faculty of Education

Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

**b. Faculty of Fine Arts Requirements for the 52-Course B.Mus./B.Ed.**

1. Completion of at least 32 courses (96.0 credit hours) from disciplines offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
2. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) on all Music and/or Music Studio courses.
3. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
4. Completion of at least 12 Music and/or Music Studio courses at the 3000/4000 level.
5. A maximum of three Independent Studies (see **Academic Regulations, Exceeding Course Limits, p. 56**).
6. Not more than eight courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0502 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
7. Required courses:

**Applied**

Music Studio 2148 - Studio I - Instrument  
 Music Studio 2248 - Studio II - Instrument  
 Music Studio 3348 - Studio III - Instrument  
 Music Studio 3448 - Studio IV - Instrument  
 Music Studio 3548 - Studio V - Instrument  
 Music Studio 3648 - Studio VI - Instrument

**History**

Music 2080 - Western Art Music  
 Music 2090 - The Eighteenth Century  
 Music 3090 - The Medieval Era to the Early Baroque  
 Music 3480 - The Nineteenth Century  
 Music 3580 - The Twentieth and Twenty-first Centuries

**Theory**

**Four of:**

Music 1160 - Foundations of Music Theory  
 Music 2260 - Harmony in the Common Practice  
 Music 3360 - Chromatic Harmony  
 Music 3460 - Harmony and Form in Jazz and Popular Music  
 Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music  
 Music 4660 - Form and Analysis

**Musicianship Skills**

- \*Music 2161 - Musicianship Skills I
- \*Music 2261 - Musicianship Skills II
- \*Music 3361 - Musicianship Skills III
- \*Music 3461 - Musicianship Skills IV

**Conducting**

Music 3500 - Conducting I  
 Music 3600 - Conducting II

**Technology**

Music 3738 - Music Education Technologies

**Ensembles**

Six Ensemble Activity courses (Each Music Ensemble Activity counts as one-half course (i.e., 1.5 credit hours))

**Elective**

**One of:**

Music 2500 - Introduction to Music Technology  
 Music 2850 - Topics in Music  
 Music 3000 - Seminar in Music (Series)  
 Music 3030 - Film Music  
 Music 3080 - Popular Music History (Series)  
 Music 3149 - Composition I

Music 3560 - Musicians' Health and Health Research  
 Music 3606 - Orchestration  
 Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music (if not chosen to meet the Theory requirement)  
 Music 3721 - World Music  
 Music 3734 - Portfolio and Music Industry  
 Music 3850 - Topics in Music  
 Music 3871 - Opera Workshop I  
 Music 4080 - Music After 1945  
 Music 4660 - Form and Analysis (if not chosen to meet the Theory requirement)  
 Music 4721 - Canadian Music  
 Music 4850 - Topics in Music  
 Music Studio 4748 - Studio VII - Instrument  
 Two Music Ensemble Activity courses (1.5 credit hours each)

### Notes

\* 1.5 credit hours.

**Note:** Composition is not available as a Studio area in the B.Mus./B.Ed.

Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

Major Focus	Music Ensemble Activity
Studio wind & percussion	Wind Orchestra
Studio voice	University Singers or Women's Chorus
Studio pianist & guitarist	Music Ensemble Activity 2450, Music Ensemble Activity 2451, Music Ensemble Activity 3450, Music Ensemble Activity 3451, and a minimum of two terms (1.5 credit hours each) of: Contemporary and Electroacoustics Ensemble Jazz Ensemble Percussion Ensemble University Singers Wind Orchestra Women's Chorus
Studio string	Orchestra (or through other approved ensemble or Independent Study by permission of the Department of Music)

### c. Faculty of Education Requirements for the 52-Course B.Mus./B.Ed.

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course

<sup>3</sup> Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, some school jurisdictions and schools may require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

- a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

Education 4362 - Concepts of Childhood in the History of Education

Education 4380 - Developing a Philosophy of Education

Education 4381 - Ethics of Teaching

Education 4391 - Seminar in Educational Foundations (Series)

- b. One appropriate Independent Study.



- c. *It is strongly recommended that electives be taken from the following:*

*Education 3871 - Elementary Music Classroom*

*Education 3872 - Secondary Music Classroom*

*Education 3875 - Brass and Percussion Methods*

*Education 3876 - Woodwind and String Methods*

*Education 3877 - Vocal and Classroom Instruments Methods*

3. Maintain a program GPA of 2.50 in Education courses.
4. Completion of the appropriate Education major as defined by the program.
5. Maintenance of a program GPA of 2.50 in the appropriate Education major.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**d. Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**e. Academic Regulations**

In the Combined Degrees program, students divide their time between two different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.Mus./B.Ed., students should be aware of the **Faculty of Education (p. 149)** regulations and **Faculty of Fine Arts (p. 167)** regulations.

**f. Education Minor Requirements**

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education, Education Minors (p. 159)** for information on Education minor requirements.

**g. Residence Requirement**

Students must complete a minimum of 32 courses at the University of Lethbridge, including 15 Education courses, and 17 courses offered by the Faculty of Fine Arts, Faculty of Arts and Science, or the School of Liberal Education, including a minimum of nine courses in Music. Students should note that the residence requirement for the B.Mus./B.Ed. is subject to the Faculty of Fine Arts transfer policy. If a student withdraws from the B.Mus./B.Ed. and is admitted to a program offered by the Faculty of Arts and Science, transfer credit will be reassessed based on the Faculty of Arts and Science transfer policy.

**h. Education Special Study Arrangements**

*Applied Studies*

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

*Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.Mus./B.Ed. (see **Academic Regulations, Exceeding Course Limits, p. 56**).

*Study Tours*

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education (see Student Program Services for policies and procedures governing Study Tours).

**8. BACHELOR OF MANAGEMENT/BACHELOR OF EDUCATION**

The Dhillon School of Business and the Faculty of Education jointly offer a Combined Degrees program leading to the degrees Bachelor of Management (B.Mgt.) and Bachelor of Education (B.Ed.). Upon successful completion of the Combined Degrees program, the student receives the B.Mgt. degree from the Dhillon School of Business and the B.Ed. degree from the Faculty of Education.

The Combined Degrees program may be completed in 50 courses (150.0 credit hours) when the General Management major is chosen for the B.Mgt. degree. Students who choose to complete a different B.Mgt. major may be required to extend their programs beyond 50 courses.

**a. Admission**

Students begin in the Pre-B.Mgt./B.Ed. program in the Dhillon School of Business, where they progress toward completion of Management degree requirements and prepare to meet the admission requirements for the Faculty of Education. After completion of the minimum admission requirements for the Faculty of Education, students may apply to and, if accepted, be formally enrolled in the B.Mgt./B.Ed. Combined Degrees program. Transfer students must meet the competitive admission requirements for both the Dhillon School of Business and the Faculty of Education to be admitted directly to the B.Mgt./B.Ed. program.

Students are not officially in the Combined Degrees program until they have been admitted to both the Dhillon School of Business

and the Faculty of Education.

Applicants should consult **Admission (p. 21)** for general admission requirements, policies, and deadlines.

1. Dhillon School of Business Admission Requirements for the Pre-B.Mgt./B.Ed. and B.Mgt./B.Ed.

Admission to the Pre-B.Mgt./B.Ed. and B.Mgt./B.Ed. programs is competitive and fulfilment of the minimum academic admission requirements does not guarantee admission. The Dhillon School of Business reserves the right of selection of all applicants for admission and readmission based on admission average.

- a. In addition to the general admission requirements outlined in **Admission (p. 21)**, applicants to the Pre-B.Mgt./B.Ed. and B.Mgt./B.Ed. programs must satisfactorily complete the following Alberta high school math course, University of Lethbridge's Mathematics 0500, or equivalent.

Major	Additional Admission Requirement
<b>Quantitative Majors:</b> Accounting, Economics, Finance	Mathematics 30-1
<b>Non-Quantitative Majors:</b> All other Management majors	One of: Mathematics 30-1 or Mathematics 30-2

b. Time Limit for Retention of Course Credit

Students may receive transfer credit for both Dhillon School of Business and non-Dhillon School of Business courses. Dhillon School of Business courses must have been completed at an accredited post-secondary institution not more than eight years prior to admission to the Dhillon School of Business.

The Dhillon School of Business will consider requests, on a case-by-case basis, to extend this time limit for applicants with recent work experience in the field.

2. Faculty of Education Admission Requirements for the B.Mgt./B.Ed.

Based on the Faculty's quota system, normally a total of 216 students in all programs will be admitted to Bachelor of Education programs (Combined Degrees and After Degree) each year. Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combines Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Completion of a minimum of 14 University of Lethbridge or transferable courses (42.0 credit hours), including at least five Dhillon School of Business courses (15.0 credit hours), which may include:

Economics 1010 - Introduction to Microeconomics  
Economics 1012 - Introduction to Macroeconomics  
Statistics 1770 - Introduction to Probability and Statistics

**Note:** Students should consult with an academic advisor in the Dhillon School of Business for assistance planning the sequencing of their remaining B.Mgt. degree requirements after admission to the Faculty of Education.

- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses taken within the terms containing the last 14 courses (42.0 credit hours). All courses must be graded.
- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all graded courses comprising the Management major.
- d. Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- e. Only courses completed by the admission document deadline will be considered for admission (see [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)). Exceptions are made for the completion of Education 2500 when applicants are completing the course over the spring or summer preceding admission.
- f. Special Case Admission
- Applicants who have a satisfactory academic record but who, for some reason, have had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.
- g. Admission Procedures Available to Students of Aboriginal Descent

The Faculty of Education and Dhillon School of Business provide two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.

- h. Returning after Withdrawal or Required Withdrawal from the Faculty of Education

Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

**b. Dhillon School of Business Requirements for the 50-Course B.Mgt./B.Ed.**

The Dhillon School of Business offers courses in the following subject areas: Accounting (ACCT), Agricultural Enterprise Management (AGEM), Finance (FINC), Human Resources and Labour Relations (HRLR), Indigenous Governance and Business Management (IGBM), International Management (IMGT), Management (MGT), and Marketing (MKTG).

1. A minimum grade of 'C-' is required in Economics 1010; Economics 1012; Statistics 1770; Writing 1000 or English 1900; all Dhillon School of Business courses, including those cross-listed with Dhillon School of Business courses; and all courses in the major marked with an asterisk (\*) in order to meet degree requirements.
2. A minimum graduation GPA of 2.00 in Dhillon School of Business courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 215**).
3. A minimum cumulative GPA of 2.00.
4. Completion of the General Management Major, comprising the following courses:

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Management 1500 - Fundamentals of Business  
 Statistics 1770 - Introduction to Probability and Statistics  
 Marketing 2020 - Marketing  
 Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 2081 - Professional Communications Skills  
 Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Management 2700 - Business Research Methods  
 Management 3031 - Managing Responsibly in a Global Environment  
 Finance 3040 - Finance  
 Human Resources and Labour Relations 3050 - Human Resource Management  
 International Management 3650 - Introduction to International Management  
 Management 4090 - Management Policy and Strategy

**One of:**

Accounting 3171 - Accounting Information Systems and Data Analytics  
 Management 3062 - Information Systems and Data Analytics  
 Management 3622 - Visual Analytics

**One of the following with Indigenous content, to meet a Liberal Education List requirement<sup>1</sup>:**

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list  
 Any course from the Indigenous Studies (INDG) subject codes list  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Art History 3152 - Indigenous Art History (Series)  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language  
 Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation  
 Political Science 3215 - Indigenous Peoples and Local Government in Canada

**One of:**

- <sup>2</sup> Final grade of 80% or higher in AB high school English Language Arts 30-I (or equivalent 5-credit course)
- <sup>2</sup> Successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))  
 Writing 1000 - Introduction to Academic Writing  
 English 1900 - Introduction to Language and Literature

Four Dhillon School of Business courses at the 3000 or 4000 level

**Notes**

<sup>1</sup> When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation assigned to it. Otherwise, an 'open' elective may need to be used to meet the Fine Arts and Humanities Liberal Education List Requirement.

<sup>2</sup> Students who meet the writing requirement through the high school grade or the challenge exam will need to substitute a Fine Arts and Humanities elective for Writing 1000 or English 1900.

5. Students are advised to take the following courses in their first year: Accounting 2100; Economics 1010; Economics 1012; Management 1500; Statistics 1770; and Writing 1000, English 1900, or successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs)).
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
7. All degree requirements must be completed within 10 years after admission to the Dhillon School of Business.
8. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit. Language courses are offered in the 0100-1990 range. Only the first course in the range counts toward this limit in the language subjects of French, Japanese and Spanish. Only one of Economics 1010 and Economics 1012 will be counted toward this limit. Only one of Biology 1010 and Biology 1020 will be counted toward this limit. Only one of Geography 1000 and Geography 1200 will be counted toward this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).

**Note:** Students should be aware that these are the requirements for the General Management major only. Students may choose to complete a different Management major in the Combined Degrees program. If students choose a different Management major, they may be required to extend their programs beyond 50 courses. See **Management Majors, Major Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt. (p. 286)** for major requirements. Computer Science majors will refer to **Dhillon School of Business, Bachelor of Management (B.Mgt.) Majors (p. 217)** for course requirements. Agricultural Enterprise Management is only available in the B.Mgt. 40-course degree program.

**c. Faculty of Education Requirements for the 50-Course B.Mgt./B.Ed.**

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course

Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, school jurisdictions and schools require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

- a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

Education 4362 - Concepts of Childhood in the History of Education

Education 4380 - Developing a Philosophy of Education

Education 4381 - Ethics of Teaching

Education 4391 - Seminar in Educational Foundations (Series)

- b. One appropriate Independent Study.

3. Maintain a program GPA of 2.50 in Education courses.
4. Completion of the Career and Technology Studies (CTS): Business Focus Education major.
5. Maintenance of a program GPA of 2.50 in the appropriate Education major.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**d. Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**e. Academic Regulations**

In the Combined Degrees program, students divide their time between different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.Mgt./B.Ed., students should be aware of the **Faculty of Education (p. 149)** regulations and **Dhillon School of Business (p. 207)** regulations.

**f. Education Minor Requirements**

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to

receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education, Education Minors (p. 159)** for information on Education minor requirements.

**g. Education Specialization Requirements**

Students may elect to complete a specialization in addition to a major or minor. Students will be eligible to receive an endorsement on their official academic transcript upon completion of a specialization. Please refer to **Faculty of Education, Education Specializations (p. 165)** for information on Education Specialization Requirements.

**h. Residence Requirement**

Students must complete a minimum of 30 courses at the University of Lethbridge, including 15 Education courses and 10 Dhillon School of Business courses, seven of which must be at the 3000/4000 level.

**i. Education Special Study Arrangements**

*Applied Studies*

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

*Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.Mgt./B.Ed. (see **Academic Regulations, Exceeding Course Limits, p. 56**).

*Study Tours*

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education (see Student Program Services for policies and procedures governing Study Tours).

**9. BACHELOR OF ARTS/BACHELOR OF MANAGEMENT OR BACHELOR OF SCIENCE/BACHELOR OF MANAGEMENT**

The Faculty of Arts and Science and the Dhillon School of Business, and Faculty of Fine Arts and the Dhillon School of Business jointly offer a 50-course (150.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Arts (B.A.) or Bachelor of Science (B.Sc.) and Bachelor of Management (B.Mgt.). Upon successful completion of the Combined Degrees program, the student receives the B.A. or B.Sc. degree from the Faculty of Arts and Science or Faculty of Fine Arts and the B.Mgt. degree from the Dhillon School of Business.

**a. Admission**

Enrolment in the B.A./B.Mgt. and B.Sc./B.Mgt. Combined Degrees programs is limited and fulfilment of the minimum academic admission requirements does not guarantee admission. The Faculties of Arts and Science and Fine Arts, and the Dhillon School of Business reserve the right of selection of all applicants for admission and readmission based on admission average.

**1. Faculty of Arts and Science or Faculty of Fine Arts Admission Requirements for the B.A./B.Mgt. or B.Sc./B.Mgt.**

All applicants to the B.A./B.Mgt. and B.Sc./B.Mgt. programs are advised to refer to **Admission (p. 21)** and [www.ulethbridge.ca/ross/admissions/undergrad](http://www.ulethbridge.ca/ross/admissions/undergrad) for general admission requirements, additional admission requirements, policies, and application deadlines.

**2. Dhillon School of Business Admission Requirements for the B.A./B.Mgt. and B.Sc./B.Mgt.**

Admission to the B.A./B.Mgt. and B.Sc./B.Mgt. programs is competitive and fulfilment of the minimum academic admission requirements does not guarantee admission. The Dhillon School of Business reserves the right of selection of all applicants for admission and readmission based on admission average.

In addition to the general admission requirements outlined in **Admission (p. 21)**, applicants to the B.A./B.Mgt. and B.Sc./B.Mgt. programs must satisfactorily complete the following Alberta high school math course, University of Lethbridge's Mathematics 0500, or equivalent:

Major	Additional Admission Requirement
<b>Quantitative Majors:</b> Accounting, Economics, Finance	Mathematics 30-1
<b>Non-Quantitative Majors:</b> All other Management majors	One of: Mathematics 30-1 or Mathematics 30-2

**3. Time Limit for Retention of Course Credit**

Students may receive transfer credit for both Dhillon School of Business and non-Dhillon School of Business courses. Dhillon School of Business courses must have been completed at an accredited post-secondary institution not more than eight years prior to admission to the Dhillon School of Business.

The Dhillon School of Business will consider requests, on a case-by-case basis, to extend this time limit for applicants with recent work experience in the field.

4. Choice of majors

Applicants seeking the B.A./B.Mgt. or B.Sc./B.Mgt. degrees must declare distinct majors in the Combined Degrees program. For example, if Economics, Indigenous Studies, or Political Science is chosen for the B.A. portion of the B.A./B.Mgt. program, the applicant must declare a Management major other than Economics, Indigenous Governance and Business Management or Political Science, respectively.

**b. General Requirements for the 50-Course B.A./B.Mgt. or B.Sc./Mgt.**

1. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
2. Residence requirement: Students must complete a minimum of 30 courses at the University of Lethbridge, including 20 courses from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education and 10 Dhillon School of Business courses at the 3000/4000 level.

Depending on the major combination chosen, students may be required to extend their program beyond 50 courses. (See **Academic Regulations, Exceeding Course Limits, p. 56**).

**c. Faculty of Arts and Science or Faculty of Fine Arts Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./Mgt.**

1. Completion of at least 30 courses (90.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education with a GPA of at least 2.00.
  2. Not more than 10 courses (30.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the Arts and Science degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 or 0530.
  3. Completion of at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or the School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE).
  4. Not more than three Independent Study courses (9.0 credit hours) may be completed for credit towards the degree.
  5. Not more than three Disciplinary Credit Applied Studies courses (9.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
  6. Not more than 17 courses (51.0 credit hours) may be completed from any one discipline for credit towards the degree (see **Faculty of Arts and Science, Arts and Science Disciplines, p. 91**).
- Note:** Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).
7. Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).
  8. Residence requirement: at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education must be completed at the University of Lethbridge.

(See **Academic Regulations, Exceeding Course Limits, p. 56**).

**d. Dhillon School of Business Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.**

The Dhillon School of Business offers courses in the following subject areas: Accounting (ACCT), Agricultural Enterprise Management (AGEM), Finance (FINC), Human Resources and Labour Relations (HRLR), Indigenous Governance and Business Management (IGBM), International Management (IMGT), Management (MGT), and Marketing (MKTG).

1. A minimum grade of 'C-' is required in Economics 1010; Economics 1012; Statistics 1770; Writing 1000 or English 1900; all Dhillon School of Business courses, including those cross-listed with Dhillon School of Business courses; and all courses in the major marked with an asterisk (\*).
2. A minimum graduation GPA of 2.00 in Dhillon School of Business courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 215**).
3. Completion of a minimum of 20 Dhillon School of Business courses including all courses required for the Management major and the courses listed below.

<sup>3</sup>Economics 1010 - Introduction to Microeconomics

<sup>3</sup>Economics 1012 - Introduction to Macroeconomics

Management 1500 - Fundamentals of Business

<sup>3</sup>Statistics 1770 - Introduction to Probability and Statistics

Marketing 2020 - Marketing

Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour

<sup>3</sup>Management 2070/Economics 2070 - Operations and Quantitative Management

Management 2081 - Professional Communications Skills

Accounting 2100 - Introductory Accounting

Accounting 2400 - Management Accounting

Management 3031 - Managing Responsibly in a Global Environment

Finance 3040 - Finance

Human Resources and Labour Relations 3050 - Human Resource Management

<sup>1</sup> International Management 3650 - Introduction to International Management

Management 4090 - Management Policy and Strategy

**One of:**

Management 3062 - Information Systems and Data Analytics

<sup>1</sup> Accounting 3171 - Accounting Information Systems and Data Analytics

Management 3622 - Visual Analytics

**One of the following with Indigenous content, to meet a Liberal Education List requirement<sup>2</sup>:**

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list

Any course from the Indigenous Studies (INDG) subject codes list

Art History 3152 - Indigenous Art History (Series)

Blackfoot 1000 - Introductory Spoken Blackfoot

Blackfoot 2210 - Structure of the Blackfoot Language

Cree 1000 - Introductory Spoken Cree

Cree 2210 - Structure of the Plains Cree Language

Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation

Political Science 3215 - Indigenous Peoples and Local Government in Canada

**One of:**

Final grade of 80% or higher in AB high school English Language Arts 30-I (or equivalent 5-credit course)

Successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))

<sup>3</sup> Writing 1000 - Introduction to Academic Writing

<sup>3</sup> English 1900 - Introduction to Language and Literature

**Notes**

<sup>1</sup> Students admitted to the Accounting major must complete Accounting 3171 and are not required to complete International Management 3650.

<sup>2</sup> Please note that the Indigenous content course requirement may count on the Faculty of Arts & Science (B.A. or B.Sc.), or the Dhillon School of Business (B.Mgt.) side of your program depending on which course students choose. Please consult with an academic advisor.

<sup>3</sup> These courses count toward the 30 courses required for the B.A. or B.Sc. portion of the B.A./B.Mgt. or the B.Sc./B.Mgt. Please also note that students who meet the writing requirement through the high school grade or the challenge exam will need to consult with Arts & Science Advising for a substitution for Writing 1000 or English 1900.

4. All degree requirements must be completed within 10 years after admission to the Dhillon School of Business.
5. Students are advised to take the following courses in their first year: Accounting 2100; Economics 1010; Economics 1012; Management 1500; Statistics 1770; and Writing 1000, English 1900, or successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs)).

**e. Major Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.**

**1. Arts and Science and Fine Arts Majors**

For the B.A., a major program must be chosen and completed from among the following majors: Anthropology, Art, Canadian Studies, Dramatic Arts, Economics, English, French, French/Spanish, Geography, History, Indigenous Studies, Kinesiology, Music, Philosophy, Political Science, Psychology, Religious Studies, Sociology, Urban and Regional Studies, Women and Gender Studies, a General Major in the Humanities, or a General Major in the Social Sciences.

For the B.Sc., a major program must be chosen and completed from among the following majors: Biological Sciences, Chemistry, Computer Science, Geography, Kinesiology, Mathematics, Physics, Psychology, or a General Major in the Sciences.

At least half the required courses in the major must be completed at the University of Lethbridge.

**a. Anthropology**

Number of courses required for the major: 13

**Required courses:**

Anthropology 1000 - The Anthropological Perspective

Anthropology 2210 - Cultures of the World (Series)

Anthropology 2410 - Anthropological Approaches to Prehistory

Anthropology 3000 - Anthropological Thought

Anthropology 3010 - Methods, Knowledge, and Ethics

Two additional courses (6.0 credit hours) in Anthropology at the 3000 or 4000 level

Two courses (6.0 credit hours) in Anthropology at the 4000 level

Four additional courses (12.0 credit hours) in Anthropology at the 2000 level or above

**Notes**

Independent Studies courses, Applied Studies courses, and the Undergraduate Thesis may not be counted as part of the minimum requirements for the major.

b. **Art**

Number of courses required for the major: 13

**Required courses:**

Art 2010 - Drawing Studio I

Art History 1001 - World Art Before 1400

Art History 1002 - World Art Since 1400

Art History 3001 - Theory and Methods in Art and Art History

**Two of:**

Art 2005 - Print Studio (Without a Press) OR Art 2006 - Print Studio (With a Press)

<sup>1</sup> Art 2015 - Art Studio (Series)

Art 2023 - Painting Studio I

Art 2027 - Photography Studio I

Art 2033 - Spatial Practice I

Art 2060 - Media Arts (Digital Sketchbook) OR Art 2061 - Media Arts (Video Sketchbook)

Art 2350/Indigenous Studies 2350 - Indigenous Art Studio I

**One of:**

Art 3261 - Art NOW

Art 3262 - Art NOW

**One of:**

Art History 3200 - Issues in 19th-Century Art and Culture

Art History 3215 - 20th-Century Art History to 1945

Art History 3240 - Canadian Art History to 1960

Museum Studies 2900 - Introduction to Museum Studies

**One of:**

Art History 3151 - Art History (Series)

Art History 3152 - Indigenous Art History (Series)

Art History 3220 - Art from 1945 to 1980

Art History 3245 - Canadian Art History from 1960 to the Present

Art History 3270 - Global Art Since 1980

Art History 3850 - Topics in Art History

Art History 4150 - Art History (Series)

Museum Studies 3850 - Topics in Museum Studies

Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display

Museum Studies 4000 - Museum Studies Internship

Four additional courses (12.0 credit hours) Art, Art History, or Museum Studies including a minimum of one at the 3000/4000 level

<sup>1</sup> A student may complete multiple offerings of Art 2015 and/or Art 3015 to meet degree requirements.

c. **Biological Sciences**

Number of courses required for the major: 16

**Required courses:**

Biochemistry 2000 - Introductory Biochemistry

Biology 1010 - Cellular Basis of Life

Biology 1020 - Diversity of Life

Biology 2000 - Principles of Genetics

Biology 2150 - Biostatistics

Biology 2200 - Principles of Ecology

Biology 2300 - Cell Biology

Biology 3300 - Evolution

Chemistry 1110 - Chemistry for Life Sciences I

Chemistry 2120 - Chemistry for Life Sciences II

Physics 1050 - Introduction to Biophysics

<sup>1</sup> Five courses (15.0 credit hours) in Biology at the 3000 level, including no more than two courses (6.0 credit hours) from each of the following subfield lists:

**List I - Cellular and Molecular Biology**

Biochemistry 3100 - Proteins, Enzymes and Nucleic Acids

Biochemistry 3700/Neuroscience 3700 - Introduction to Bioinformatics

Biology 3000 - Gene Expression and Regulation

Biology 3005 - Genomes

Biology 3110 - Cell Signalling

Biology 3210 - Experimental Methods in Molecular and Cellular Biology



Biology 3400 - Principles of Microbiology

**List 2 - Organismal Biology**

Biology 3310 - Developmental Biology

Biology 3420 - Animal Physiology

Biology 3460 - Plant Physiology

Biology 3520 - Invertebrate Zoology

Biology 3530 - Vertebrate Zoology

Biology 3560 - Integrative Plant Biology

**List 3 - Ecology and Evolutionary Biology**

Biology 3630 - Field Biology

Biology 3660 - Field Botany

Biology 3700 - Ecosystem Ecology

Biology 3710 - Population Biology

Biology 3720 - Community Ecology

**Recommended course:**

Environmental Science 2000 - Fundamentals of Environmental Science

**Notes**

<sup>1</sup> Topics courses (Biology 3850) may be assigned to one of the Biological Sciences lists at the time of scheduling. Please refer to the current term timetable.

**Concentration: Research Internship (optional)**

Students completing the major in Biological Sciences for the B.Sc./B.Mgt. may declare a Research Internship Concentration.

**Admission Requirements:**

Students interested in the Research Internship option will need to qualify according to one of the following routes:

1. Direct Entry

Students applying to the Research Internship Concentration with fewer than four university courses completed will be considered direct entry applicants. Direct entry applicants must present a minimum 80% grade in Biology 30 and a minimum 75% admission average (see **Faculty of Arts and Science, Admission, p. 89**).

2. Delayed Entry

Students applying to the Research Internship Concentration after completing four or more university courses will be considered delayed entry applicants. Delayed entry applicants must present one of Biology 1010 or Biology 1020 and a minimum GPA of 3.00 (calculated on all completed university-level courses).

Fulfillment of one of the above admission routes does not guarantee admission due to a limited number of seats. Students may be ranked according to GPA, and may be asked for a *Letter of Intent*, references, and/or an interview.

**Continuation:**

Students admitted to the Research Internship Concentration must maintain a minimum cumulative GPA of 3.00. Students who fall below 3.00 will be removed from the concentration.

**Required courses:**

Biology 2001 - Research Internship I: Scientific Discovery

Biology 2002 - Research Internship II: Scientific Data and Analysis

Biology 3001 - Research Internship III: Communicating Science

**One of:**

Biology 4995 - Undergraduate Thesis (6.0 credit hours)

Two Independent Study courses (6.0 credit hours) in Biology at the 3000/4000 level

**Notes**

Students may need to complete more than the minimum number of courses for their degree to complete the concentration.

Students are encouraged to complete additional research intensive activities (Applied Studies, Independent Studies, Co-operative Education).

For students who complete all requirements, the Research Internship Concentration will be acknowledged on the official academic transcript.

**Concentration: Biomedical Sciences (optional)**

Students completing the major in Biological Sciences for the B.Sc./B.Mgt. may declare a Concentration in Biomedical Sciences.

**Required courses:**

**Biology 3110 - Cell Signalling****One of:**

Biology 3000 - Gene Expression and Regulation  
 Biology 3005 - Genomes

**One of:**

Biology 3310 - Developmental Biology  
 Biology 3420 - Animal Physiology

**Two of:**

Biology 4130 - Medical Genomics  
 Biology 4140 - RNA Biology  
 Biology 4155 - Cannabis and Health  
 Biology 4180 - Natural Products  
 Biology 4230 - Molecular and Cellular Biology of Cancer  
 Biology 4440 - Toxicology

**Notes**

Students may not double count courses required for the Concentration in Biomedical Sciences in fulfilling requirements for the major. In such cases, students must select another option. Students may need to complete more than the minimum number of courses for their degree to complete the concentration.

For students who complete all requirements with a GPA of at least 3.00 calculated on the concentration courses, the Concentration in Biomedical Sciences will be acknowledged on the official academic transcript.

**Concentration: Conservation and Biodiversity (optional)**

Students completing the major in Biological Sciences for the B.Sc./B.Mgt. may declare a Concentration in Conservation and Biodiversity.

**Required courses:**

Biology 4605 - Conservation Biology

**One of:**

Biology 3520 - Invertebrate Zoology  
 Biology 3530 - Vertebrate Zoology  
 Biology 3560 - Integrative Plant Biology

**Three of:**

Biology 3630 - Field Biology or Biology 3660 - Field Botany  
 Biology 3700 - Ecosystem Ecology  
 Biology 3710 - Population Biology  
 Biology 3720 - Community Ecology  
 Biology 4210 - Environmental Genomics  
 Biology 4700 - Molecular Ecology  
 Biology 4740 - Behavioural Ecology

<sup>1</sup> Political Science 3260 - Canadian Public Policy or Philosophy 2236 - Environmental Philosophy or  
 Economics 3220 - Environmental Economics<sup>1</sup>

<sup>2</sup> Biology 3990 - Independent Study or Biology 4990 - Independent Study<sup>2</sup>

**Notes**

<sup>1</sup> Prerequisite required that is not part of the major.

<sup>2</sup> One Independent Study may be used as part of the concentration provided (1) it is clearly related to Conservation and Biodiversity and (2) it is approved by the Chair of the Department of Biological Sciences.

Students may not double count courses required for the Concentration in Conservation and Biodiversity in fulfilling requirements for the major. In such cases, students must select another option. Students may need to complete more than the minimum number of courses for their degree to complete the concentration.

For students who complete all requirements, the Concentration in Conservation and Biodiversity will be acknowledged on the official academic transcript.

**d. Canadian Studies**

Students must complete 15 of the 20 courses normally required for the major in Canadian Studies for the B.A. (see **Faculty of Arts and Science, Canadian Studies (B.A.), p. 108**). At least six of the courses must be taken at the 3000 or 4000 level. Nine courses should be selected from the core list. The remaining six courses must include at least two disciplines. Please contact an Arts and Science academic advisor for more information.

**e. Chemistry**

Number of courses required for the major: 14

**Required Courses:**

Chemistry 1000 - General Chemistry I  
 Chemistry 2000 - General Chemistry II  
 Chemistry 2410 - Analytical Chemistry I

Chemistry 2500 - Organic Chemistry I  
 Chemistry 2600 - Organic Chemistry II  
 Chemistry 2740 - Physical Chemistry I  
 Physics 2000 - Introduction to Physics II

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II (recommended)

**One of:**

Physics 1000 - Introduction to Physics I (recommended)  
 Physics 1050 - Introduction to Biophysics  
<sup>1</sup> Engineering 2060 - Engineering Mechanics

**Four of:**

Biochemistry 2000 - Introductory Biochemistry  
 Biochemistry 3100 - Proteins, Enzymes and Nucleic Acids  
 Biochemistry 3300 - Bioenergetics and Metabolism  
 Chemistry 3250 - Contemporary Chemistry  
 Chemistry 3410 - Analytical Chemistry II  
<sup>2</sup> Chemistry 3730 - Physical Chemistry II  
 Chemistry 3830 - Inorganic Chemistry I  
 Chemistry 3840 - Inorganic Chemistry II

**Recommended course:**

Biology 1010 - Cellular Basis of Life

**Notes**

<sup>1</sup> Prerequisite required: Engineering 2000

<sup>2</sup> Prerequisite required: Mathematics 1410

The major in Chemistry for the Combined Degrees program is not accredited by the Canadian Society of Chemistry, nor is it sufficient for pursuing graduate studies in Chemistry.

Chemistry courses are organized in sequences and must be taken in the proper order. In addition, several of the 3000-level courses are offered only in alternate years. Students with a major in Chemistry are advised to seek help in planning their programs from the Departmental Advisor or from any faculty member in the Department of Chemistry and Biochemistry at an early stage of their studies.

**f. Computer Science**

Number of courses required for the major: 11

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I  
 Computer Science 1820 - Discrete Structures  
 Computer Science 2610 - Introduction to Digital Systems  
 Computer Science 2620 - Fundamentals of Programming II  
 Computer Science 2720 - Practical Software Development  
 Computer Science 3620 - Data Structures and Algorithms  
 Computer Science 3660 - Introduction to Database Systems  
 Computer Science 3740 - Programming Languages  
 Mathematics 2000 - Mathematical Concepts

One course (3.0 credit hours) in Computer Science at the 4000 level, excluding Computer Science 4850 (Topics), Computer Science 4980 (Applied Studies), and Computer Science 4990 (Independent Study)

One additional course (3.0 credit hours) in Computer Science

**g. Dramatic Arts**

Number of courses required for the major: 15

**Required courses:**

Drama 1000 - Introduction to Dramatic Arts  
 Drama 2010 - Performance Fundamentals  
 Drama 2100 - Play Reading and Analysis  
 Drama 2120 - History and Development of Theatre I  
 Drama 2130 - History and Development of Theatre II  
 Drama 2810 - Introduction to Stagecraft  
 Drama 3100 - Theatre in Performance  
 Drama 3130 - Canadian Theatre

**One of:**

Drama 2310 - Acting I  
 Drama 2320 - Voice I  
 Drama 2340 - Movement I  
 Drama 2420 - Directing I  
 Drama 2510 - Theatre for Young Audiences I  
 Drama 2740 - Devised Theatre I  
 Drama 2750 - Playwriting I  
 Drama 2825 - Introduction to Design for Theatre

**One of:**

Drama 2600 - Drama Portfolio I  
 Drama 3611 - Advanced Stagecraft I

**Two of:**

Cinema 3000 - Contemporary American Cinema  
 Cinema 3001 - Film Authorship  
 Cinema 3201 - Documentary Film Studies  
 Cinema 3202 - Film Noir and Crime Cinema  
 Cinema 3203 - Film Comedy  
 Cinema 3550/New Media 3550 - History of Animation  
 Drama 3150 - Theatre Studies (Series)  
 Drama 3151 - Play Reading and Analysis II  
 Drama 3160 - Dramaturgy  
 English 3010 - Literary Theory  
 New Media 3560 - Popular Narrative

**One of:**

English 3201 - Elizabethan and Jacobean Drama  
 English 3602 - Shakespeare  
 English 3620 - Modern Drama  
 English 3660 - Contemporary Drama

**One of:**

Drama 4150 - Theatre Studies (Series)  
 Drama 4211 - Theories of Theatre

One additional course (3.0 credit hours) in Drama at the 3000/4000 level

One additional course (3.0 credit hours) in Drama

**h. Economics**

Number of courses required for the major: 14

**Required courses:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Economics 2750 - Quantitative Methods in Economics  
 Economics 2900 - Economics and Business Statistics  
 Economics 3010 - Intermediate Microeconomic Theory  
 Economics 3012 - Intermediate Macroeconomic Theory  
 Economics 3950 - Econometrics I  
 Statistics 1770 - Introduction to Probability and Statistics  
 Three courses (9.0 credit hours) in Economics at the 4000 level  
 Three additional courses (9.0 credit hours) in Economics

**i. English**

Number of courses required for the major: 13

**Required courses:**

English 1900 - Introduction to Language and Literature

**Two of (Literary Surveys):**

English 2000 - Survey of Canadian Literature  
 English 2400 - Survey of English Literature I  
 English 2450 - Survey of English Literature II  
 English 2500 - Survey of American Literature I  
 English 2550 - Survey of American Literature II  
 English 2610 - Survey of Children's Literature  
 English 2625 - Survey of World Literature  
 English 2700 - Surveys of Literature (Series)

**Two of (Genres, Approaches and Themes):**

English 2100 - Poetry

English 2200 - Drama  
 English 2300 - Prose Fiction  
 English 2605/Indigenous Studies 2605 - Introduction to Indigenous Literature  
 English 2720 - Approaches to Literature (Series)  
 English 2800 - Rhetoric  
 English 2810 - Grammar

Six courses (18.0 credit hours) in English at the 3000/4000 level chosen from the subfield lists below

Two courses (6.0 credit hours) in English at the 4000 level chosen from the subfields lists below

For the above 3000/4000-level requirements, students must draw courses from at least five of the following subfield lists:

1. Theory, Language and Creative Writing
  - English 3010 - Literary Theory
  - English 3060 - Gender and Literature
  - English 3070 - Imperialism and Nationalism in Children's Literature
  - English 3800 - Creative Writing
  - English 3901 - History of the English Language
2. Old and Middle English
  - English 3401 - Medieval Literature
  - English 3450 - Old English
  - English 3601 - Chaucer
3. Renaissance
  - English 3201 - Elizabethan and Jacobean Drama
  - English 3410 - 17th-Century Literature
  - English 3602 - Shakespeare
4. Eighteenth Century and Romantic
  - English 3301 - Rise of the Novel
  - English 3310 - Restoration and 18th-Century Literature
  - English 3350 - Romanticism
5. Nineteenth Century
  - English 3302 - 19th-Century British Novel
  - English 3500 - Victorian Literature
6. Twentieth Century and Contemporary
  - English 3610 - Modernism
  - English 3620 - Modern Drama
  - English 3630 - Modern Novel
  - English 3650 - Contemporary Literature
  - English 3660 - Contemporary Drama
7. Canadian and Post-Colonial
  - English 3001 - Canadian Poetry
  - English 3002 - Contemporary Canadian Drama
  - English 3008 - Canadian Literature, 1867 - 1914
  - English 3605/Indigenous Studies 3605 - Indigenous Literature - Advanced
  - English 3810 - Contemporary Canadian Literature
  - English 3860 - Post-Colonial Literature
  - English 4000 - Seminars in Canadian and Post-Colonial Literature (Series)

### Notes

Offerings in the English 3700, English 4400, and English 4600 series will be assigned to one of the subfield lists at the time of scheduling. Please refer to the current term timetable.

Independent Study courses, Applied Studies courses, and courses not listed under the seven subfields are not counted as part of the 13-course minimum for the major; they are strongly encouraged for students taking courses beyond this minimum, however.

It is recommended that students include a broad variety of periods and all three genres (drama, poetry, and prose fiction) in their programs.

### j. French

Number of courses required for the major: 10

#### Required courses:

#### One of the following pairs (a. or b.):

- a. **Non-Immersion Pair** (for students who have completed French 30, French 31, or equivalent)
  - French 2010 - Intermediate Language I

## French 2020 - Intermediate Language II

**b. Immersion Pair** (for students who have completed French Language Arts 30, Français 30, or equivalent)

French 2001 - Intermediate Language for Immersion Graduates

One additional course in French

French 2300 - Introduction to Modern Literature and Literary Analysis

French 3001 - Advanced Language I

French 3100 - Survey of Pre-Revolutionary French Literature

French 3450 - Phonetics and Diction

**One of:**

French 4001 - Advanced Language II

French 4002 - Advanced Studies in Language (Series)

Two additional courses (6.0 credit hours) in French at the 3000/4000 level

One additional course (3.0 credit hours) in French

**Notes**

Students may **not** count French 1000 (Beginners' French I) among the minimum requirements for the major.

Students who have not completed French 30 or French 31 (or equivalent) should begin their program with French 1000 and/or French 1100 depending on the placement test (see **Faculty of Arts and Science, French (B.A.), p. 115**).

k. **French/Spanish**

Number of courses required for the major: 16

**Required courses:**

French 2300 - Introduction to Modern Literature and Literary Analysis

French 3001 - Advanced Language I

Spanish 2300 - Introduction to Hispanic Literature and Literary Analysis

**One of:**

Spanish 3001 - Advanced Language

Spanish 3002 - Spanish for Professional Contexts

Four additional courses (12.0 credit hours) in French at the 3000/4000 level

Three additional courses (9.0 credit hours) in Spanish at the 3000/4000 level

Two additional courses (6.0 credit hours) in French

Three additional courses (6.0 credit hours) in Spanish

**Notes:**

Students may **not** count either French 1000 (Beginners' French I) or Spanish 1000 (Beginners' Spanish I) among the minimum requirements for the major.

Students may replace one course in Spanish with one course in Hispanic Studies.

l. **General Major in the Humanities**

Number of courses required for the major: 16

**Required courses:**

Four courses (12.0 credit hours) in each of three disciplinary streams chosen from the following list:

English - all courses

Fine Arts - all courses in Art, Art History, Cinema, Drama, Museum Studies, Music, Music Studio, and New Media

One of French, Japanese, or Spanish

Classical Languages <sup>1</sup> - all courses in Greek, Hebrew, and Latin

History - all courses

Indigenous Studies - all courses (including courses in Blackfoot and Cree)

Linguistics - all courses designated Humanities

Philosophy - all courses designated Humanities

Religious Studies - all courses

Three additional courses (9.0 credit hours) chosen from any of the Humanities disciplinary streams listed above

One course (3.0 credit hours) in a language other than English

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

**Notes**

<sup>1</sup> Classical language courses (Greek, Hebrew, and Latin) may not be offered each term.

To determine if a given course in a disciplinary stream has a Humanities designation, see List I: Fine Arts and Humanities Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

If one of the disciplinary streams selected is a language discipline, students may use a course in a different language or an additional course in the chosen stream to meet the language requirement.

m. **General Major in the Sciences**

Number of courses required for the major: 16

**Required courses:**

Four courses (12.0 credit hours) in each of three disciplinary streams chosen from the following list:

- Archaeology - all courses designated Science
- Biological Sciences - all Biology courses
- Chemistry - all courses (including courses in Biochemistry)
- Computer Science - all courses
- Geography - all courses designated Science
- Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)
- Mathematics - all courses (including courses in Statistics)
- Neuroscience - all courses
- Physics - all courses (including courses in Astronomy and Engineering)
- Psychology - all courses designated Science

Three additional courses (9.0 credit hours) chosen from any of the Sciences disciplinary streams listed above

**One of (Science in Human Affairs):**

- Biochemistry 2300 - Elements of Human Nutrition
- Biology 2500 - Biology and Society
- Environmental Science 2000 - Fundamentals of Environmental Science
- Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences
- Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter
- Philosophy 3402 - Biomedical Ethics
- Physics 2020 - The Physics of Everyday Life

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

**Notes**

To determine if a given course in a disciplinary stream has a Science designation, see List II: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

Some of the Science in Human Affairs courses have prerequisites which may or may not be included in the major.

n. **General Major in the Social Sciences**

Number of courses required for the major: 16

**Required courses:**

Four courses (12.0 credit hours) in each of three disciplinary streams chosen from the following list:

- Anthropology - all courses
- Archaeology - all courses designated Social Science
- Economics - all courses designated Social Science
- Geography - all courses designated Social Science
- History - all courses
- Indigenous Studies - all courses (courses in Blackfoot and Cree may not be included)
- Kinesiology - all courses designated Social Science (Physical Activity courses may not be included)
- Political Science - all courses designated Social Science
- Psychology - all courses designated Social Science
- Sociology - all courses
- Women and Gender Studies - all courses designated Social Science

Three additional courses (9.0 credit hours) chosen from any of the Social Sciences disciplinary streams listed above

**One of (Quantitative Methods):**

- Economics 2900 - Economics and Business Statistics
- Geography 2700 - Geographical Data and Analysis
- Psychology 2030 - Methods and Statistics B
- Sociology 2130 - Quantitative Research Practice
- Statistics 2780 - Statistical Inference

Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

**Notes**

To determine if a given course in a disciplinary stream has a Social Science designation, see List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

The Quantitative Methods courses have prerequisites which may or may not be included in the major.

o. **Geography (B.A. or B.Sc.)**

Number of courses required for the major: 11

**Required courses:**

- Environmental Science 2000 - Fundamentals of Environmental Science

Geography 1000 - Introduction to Physical Geography  
 Geography 1200 - Introduction to Human Geography  
 Geography 2030 - Geomorphology  
 Geography 2210 - Spatial Organization of Economic Activity  
 Geography 2300 - Weather and Climate  
 Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science  
 Two courses (6.0 credit hours) in Geography at the 3000/4000 level  
 One additional course (3.0 credit hours) in Geography

p. **History**

Number of courses required for the major: 10

**Required courses:**

History 2222 - History in Practice

**One of:**

History 1000 - The Western World  
 History 1200 - World History

**Four of:**

Economics 3170 - Economic History of Canada  
 History 2001 - Main Themes in Ancient History  
 History 2100 - Main Themes in Medieval European History  
 History 2102 - Early Modern Europe - 1500-1750  
 History 2150 - The Politics of Europe - 1750-1914  
 History 2290 - Main Themes in East Asian History  
 History 2300 - Latin America  
 History 2500 - Themes in British Social and Political History  
 History 2600 - Main Themes in the History of the United States  
 History 2710 - Canada to 1867  
 History 2720 - Canada Since 1867  
 History 2800/Women and Gender Studies 2800 - History of Women  
 Religious Studies 2500 - Christianity

Two courses (6.0 credit hours) in History at the 3000/4000 level

Two courses (6.0 credit hours) in History at the 4000 level, excluding History 4980 (Applied Studies) and History 4990 (Independent Study)

q. **Indigenous Studies**

Number of courses required for the major: 16

**Required courses:**

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
 Indigenous Studies 1010 - Introduction to Indigenous Studies II: Global Perspectives  
 Indigenous Studies 1100/Linguistics 1100 - Language and Culture in Indigenous America  
 One course (3.0 credit hours) in Blackfoot or Cree

**One of (Language and Linguistics):**

Indigenous Studies 2750/Linguistics 2750 - Endangered Languages  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 2210 - Structure of the Plains Cree Language

**One of (Art and Literature):**

Indigenous Studies 2300 - North American Indigenous Art History and Theory  
 Indigenous Studies 2350/Art 2350 - Indigenous Art Studio I  
 Indigenous Studies 2605/English 2605 - Introduction to Indigenous Literature

**One of (Culture and History):**

Indigenous Studies 2400 - Comparative Traditional Indigenous Economies  
 Indigenous Studies 2455 - Social Organization: Kinship  
 Indigenous Studies 2500 - Indigenous Histories of Canada  
 Indigenous Studies 2550 - Indigenous Histories of the United States  
 Indigenous Studies 3220 - Oral Histories/Life Stories  
 Indigenous Studies 3860 - Seminar in Indigenous North American Histories, Archaeologies, and Cultures (Series)

**One of (Law and Politics):**

Indigenous Studies 2100 - Indigenous Peoples and Law



Indigenous Studies 3500 - Indigenous Treaties in an International Context  
 Indigenous Studies 3550 - Settler Colonial Policies and Indigenous Sovereignities

**One of (Contemporary Themes):**

Indigenous Studies 2360 - Indigenous Popular Cultures  
 Indigenous Studies 2700 - Indigenous Women  
 Indigenous Studies 3700 - Indigenous Health

Four courses (12.0 credit hours) in Indigenous Studies at the 3000/4000 level

One course (3.0 credit hours) in Indigenous Studies at the 4000 level

Two additional courses (6.0 credit hours) in Indigenous Studies, Blackfoot, or Cree

r. **Kinesiology (B.A.)**

Number of courses required for the major: 13

**Required courses:**

Kinesiology 1000 - Wellness and Physical Activity

Kinesiology 2110 - Biophysical Perspectives

Kinesiology 2130 - Humanities Perspectives

Kinesiology 2140 - Psychological Perspectives

Kinesiology 2150 - Sociological Perspectives

Kinesiology 2200 - Research Methodologies

Kinesiology 2600 - Functional Human Anatomy

Kinesiology 3300 - Leadership Skills Development

One course (3.0 credit hours) in Kinesiology at the 3000/4000 level with a Humanities or Social Science designation

One course (3.0 credit hours) in Kinesiology at the 4000 level with a Humanities or Social Science designation, excluding

Kinesiology 4980 (Applied Study) and Kinesiology 4990 (Independent Study)

Three courses (9.0 credit hours) in Physical Activity at the 3000 level

**Notes**

To determine if a given course in Kinesiology has a Humanities or Social Science designation, see List I: Fine Arts and Humanities Courses and List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

s. **Kinesiology (B.Sc.)**

Number of courses required for the major: 16

**Required courses:**

Biology 1010 - Cellular Basis of Life

Kinesiology 1000 - Wellness and Physical Activity

Kinesiology 2200 - Research Methodologies

Kinesiology 2600 - Functional Human Anatomy

Kinesiology 2610 - Human Physiology

Kinesiology 2650 - Functional Biomechanics

Kinesiology 3300 - Leadership Skills Development

Kinesiology 3610 - Exercise Physiology

Kinesiology 3630 - Growth, Development and Aging

Kinesiology 3650 - Biomechanics

Physics 1050 - Introduction to Biophysics

**One of:**

Chemistry 1000 - General Chemistry I

Chemistry 1110 - Chemistry for Life Sciences I

One course (3.0 credit hours) in Kinesiology at the 4000 level with a Science designation, excluding Kinesiology 4980 (Applied Study) and Kinesiology 4990 (Independent Study)

Three courses (9.0 credit hours) in Physical Activity at the 3000 level

**Notes**

To determine if a given course in Kinesiology has a Science designation, see List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

t. **Mathematics**

Number of courses required for the major: 13

**Required courses:**

Computer Science 1620 - Fundamentals of Programming I

Mathematics 1410 - Elementary Linear Algebra

Mathematics 2000 - Mathematical Concepts

Mathematics 3400 - Group and Ring Theory

Mathematics 3410 - Linear Algebra

Mathematics 3500 - Analysis I  
 Statistics 1770 - Introduction to Probability and Statistics  
 Statistics 2780 - Statistical Inference

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II (recommended)

**One of the following Streams (a. or b.):**

**a. Standard Stream**

Mathematics 2570 - Calculus III  
 Mathematics 2580 - Calculus IV

**b. Accelerated Stream**

Mathematics 2575 - Accelerated Calculus III (recommended)  
 One additional course (3.0 credit hours) in Mathematics, Statistics, or Computer Science at the 2000 level or above

One additional course (3.0 credit hours) in Mathematics or Statistics at the 3000/4000 level, excluding Mathematics 3980, Mathematics 4980, Statistics 3980, Statistics 4980 (Applied Studies) and Mathematics 3990, Mathematics 4990, Statistics 3990, Statistics 4990 (Independent Study)

**Notes**

Students are strongly encouraged to include additional Computer Science courses in their program.

u. **Music**

Number of courses required for the major: 16

**Required courses:**

Music 1160 - Foundations of Music Theory  
 Music 2080 - Western Art Music  
 Music 2090 - The Eighteenth Century  
<sup>1</sup> Music 2161 - Musicianship Skills I  
<sup>1</sup> Music 2260 - Harmony in the Common Practice  
<sup>1</sup> Music 2261 - Musicianship Skills II  
 Music 2500 - Introduction to Music Technology

**Three of:**

Music 3030 - Film Music  
<sup>2</sup> Music 3200 - Popular Music (Series)  
 Music 3261 - Music in Recital  
 Music 3721 - World Music  
 Music 3734 - Portfolio and Music Industry  
 Music 3850 - Topics in Music

<sup>3</sup> Seven additional courses from the Department of Music (21.0 credit hours) including a minimum of five courses at the 3000/4000 level, excluding Music 1000 and Music 1011, and including no more than four Music Ensemble Activity courses.

**Notes**

<sup>1</sup> 1.5 credit hours.

<sup>2</sup> Only one offering of Music 3200 may count toward the "Three of" list. Additional offerings of Music 3200 may be taken as Music Electives.

<sup>3</sup> Music Ensemble Activity courses cannot be used to meet the 3000/4000-level course requirement in the Music major.

v. **Philosophy**

Number of courses required for the major: 13

**Required courses:**

**Two of (Logic):**

Logic 1000 - Critical Thinking  
 Logic 2003 - Symbolic Logic I  
 Logic 3003 - Symbolic Logic II

**Two of (History of Philosophy):**

Philosophy 2010 - Ancient Philosophy  
 Philosophy 2030 - 17th-Century Philosophy: Descartes to Leibniz  
 Philosophy 3350 - Analytic Philosophy  
 Philosophy 3409 - 18th-Century Philosophy: Leibniz to Kant  
 Philosophy 3420 - Wittgenstein

**One of (Philosophy of Values):**

Philosophy 2001 - Introduction to Ethics  
 Philosophy 3401 - Social and Political Philosophy

Philosophy 3410 - Advanced Ethics

**One of (Philosophy of Values):**

Philosophy 2150 - Philosophy of Art  
 Philosophy 2236 - Environmental Philosophy  
 Philosophy 3402 - Biomedical Ethics  
 Philosophy 3404 - Philosophy of Law  
 Philosophy 3411 - Game Theory in Philosophy  
 Philosophy 3413 - Feminist Philosophy  
 Philosophy 3450 - Philosophy of War

**Two of (Philosophy of Reality):**

Philosophy 2002 - Belief, Truth, and Paradox  
 Philosophy 2210 - Philosophy of Religion  
 Philosophy 2220 - Philosophy of Mind  
 Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences  
 Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter  
 Philosophy 3260 - Metaphysics  
 Philosophy 3270 - Theory of Knowledge  
 Philosophy 3280 - Philosophy of Language

One course (3.0 credit hours) in Philosophy or Logic at the 4000 level

Four additional courses (12.0 credit hours) in Philosophy or Logic

**Notes**

Offerings in the Philosophy 2000 and Philosophy 3000 series may be assigned to one of the lists (History, Values, or Reality) at the time of scheduling. Please refer to the current term timetable.

w. **Physics**

Number of courses required for the major: 14

**Required courses:**

Mathematics 1410 - Elementary Linear Algebra  
 Physics 2000 - Introduction to Physics II  
 Physics 2020 - The Physics of Everyday Life  
 Physics 2120 - Introduction to Physics III  
 Physics 2130 - Waves, Optics and Sound  
 Physics 2150 - Quantum Mechanics I  
 Physics 2925 - Introduction to Experimental Physics  
 Physics 3750 - Contemporary Physics

**One of:**

Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I (recommended)

**One of:**

Mathematics 2560 - Calculus II  
 Mathematics 2565 - Accelerated Calculus II (recommended)

**One of:**

Mathematics 2570 - Calculus III  
 Mathematics 2575 - Accelerated Calculus III (recommended)

**One of:**

Physics 1000 - Introduction to Physics I  
 Physics 1050 - Introduction to Biophysics  
<sup>1</sup> Engineering 2060 - Engineering Mechanics

**One of:**

Astronomy 2020 - Modern Astronomy  
 Astronomy 2070 - The Solar System

One additional course (3.0 credit hours) in Physics, Astronomy, or Engineering

**Notes**

<sup>1</sup> Engineering 2000 and Mathematics 1565 are prerequisites for Engineering 2060.

Students wishing to include 3000-level Physics courses in their program should take Mathematics 2575 (Accelerated Calculus III) as part of their major or Mathematics 2580 (Calculus IV) as an elective, either of which is a prerequisite for most senior Physics courses.

It is recommended that Physics majors in Combined Degrees include courses in Biology, Chemistry, Computer Science, and Mathematics.

Since a number of senior-level Physics courses are offered only in alternate years, students are advised to plan carefully to include the desired courses. Students with a major in Physics are strongly advised to seek help in planning their program from the Department of Physics and Astronomy.

x. **Political Science**

Number of courses required for the major: 13

**Required courses:**

Political Science 1000 - Introduction to Political Science  
 Political Science 2110 - International Relations  
 Political Science 2210 - Canadian Politics and Government  
 Political Science 2310 - Comparative Politics and Government  
 Political Science 2511 - Introduction to Political Theory  
 Political Science 2610 - Introductory Research Methods  
 Five courses (15.0 credit hours) in Political Science at the 3000/4000 level  
 Two courses (6.0 credit hours) in Political Science at the 4000 level

**Notes**

Political Science 4980 (Applied Studies) and Political Science 4990 (Independent Study) may not be included as part of the 13-course minimum for the major; they are strongly encouraged for students taking courses beyond this minimum, however.

y. **Psychology (B.A.)**

Number of courses required for the major: 16

**Required courses:**

Neuroscience 2610 - Principles of Brain Structure and Function  
 Neuroscience 2620 - Principles of Behavioural Neuroscience  
 Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception  
 Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal  
 Psychology 1030 - Methods and Statistics A  
 Psychology 2005 - Psychological Sketches: Straight from the Researchers  
 Psychology 2110 - Introduction to Child Development  
 Psychology 2330 - Learning and Cognition  
 Psychology 2700 - Behaviour and Evolution  
 Psychology 2800 - Social Psychology

**One of (Developmental):**

Psychology 3000 - Issues in Psychology (Series)  
 Psychology 3105 - Adolescent Development  
 Psychology 3120 - Psychology of Aging

**One of (Sociocultural):**

Psychology 3240/Linguistics 3240 - Psychology of Language  
 Psychology 3330 - Social Cognition  
 Psychology 3805 - Social Learning and Culture  
 Psychology 3825 - Human Sociality: Ourselves and Others  
 Psychology 3845 - Issues in Sexuality

**One of (Abnormal):**

Psychology 3130 - Developmental Psychopathology  
 Psychology 3500 - Abnormal Psychology  
 Psychology 3910 - Psychology of Criminal Behaviour

**One of:**

Psychology 4210 - Speech Development  
 Psychology 4220 - The Psychology of Choice  
 Psychology 4460 - Celluloid Psychology  
 Psychology 4505 - Biological Bases of Mental Disorders  
 Psychology 4520 - Neurodevelopmental Disorders  
 Psychology 4540 - Current Issues in Psychopathology  
 Psychology 4550 - Abnormal Psychology (Series)  
 Psychology 4710 - Human Health, Behaviour, and Social Technologies  
 Psychology 4830 - Cultural Organisms

Two additional courses (6.0 credit hours) in Psychology at the 3000 or 4000 level, at least one of which must be designated as Social Science

**Notes**

To determine if a given course has a Social Science designation, see List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

z. **Psychology (B.Sc.)**

Number of courses required for the major: 16

**Required courses:**

Neuroscience 2610 - Principles of Brain Structure and Function  
 Neuroscience 2620 - Principles of Behavioural Neuroscience  
 Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception  
 Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal  
 Psychology 1030 - Methods and Statistics A  
 Psychology 2005 - Psychological Sketches: Straight from the Researchers  
 Psychology 2110 - Introduction to Child Development  
 Psychology 2330 - Learning and Cognition  
 Psychology 2700 - Behaviour and Evolution  
 Psychology 2800 - Social Psychology

**One of (Evolution):**

Biology 3300 - Evolution  
 Neuroscience 3710 - Behaviour and the Evolution of Brains  
 Neuroscience 3720 - Play Behaviour  
 Psychology 3635 - Evolution and Psychobiology of Religious Behaviour  
 Psychology 3760 - Animal Communication  
 Psychology 3790 - Human Behavioural Ecology

**One of (Mechanisms):**

Neuroscience 3600 - Fundamental Neurobiology  
 Neuroscience 3610 - Human Neuropsychology  
 Neuroscience 3615 - Functional Neuroanatomy  
 Neuroscience 3640 - Brain Plasticity and Memory  
 Psychology 3525 - Hormones and Behaviour  
 Psychology 3535 - Drugs and Behaviour

**One of (Cognition and Perception):**

Neuroscience 3645 - Cognitive Neuroscience I  
 Psychology 3050 - Human Cognition  
 Psychology 3360 - Sensation and Perception  
 Psychology 3770 - Primate Lives and Human Cognitive Evolution

**One of:**

Psychology 4210 - Speech Development  
 Psychology 4220 - The Psychology of Choice  
 Psychology 4460 - Celluloid Psychology  
 Psychology 4505 - Biological Bases of Mental Disorders  
 Psychology 4520 - Neurodevelopmental Disorders  
 Psychology 4540 - Current Issues in Psychopathology  
 Psychology 4550 - Abnormal Psychology (Series)  
 Psychology 4710 - Human Health, Behaviour, and Social Technologies  
 Psychology 4830 - Cultural Organisms

Two additional courses (6.0 credit hours) in Psychology or Neuroscience at the 3000 or 4000 level, at least one of which must be designated as Science

**Notes**

To determine if a given course has a Science designation, see List III: Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**aa. Religious Studies**

Number of courses required for the major: 14

**Required courses:**

Religious Studies 1000 - Introduction to World Religions  
 Religious Studies 2001 - Religion, Worldviews, and Identity  
 Religious Studies 4001 - Concepts and Methods in the Study of Religion

**One of (Eastern Religions):**

Religious Studies 2100 - The Hindu Tradition  
 Religious Studies 2200 - The Buddhist Tradition  
 Religious Studies 2330 - Chinese Religions  
 Religious Studies 2360 - Japanese Religions

**One of (Western Religions):**

Religious Studies 2400 - Judaism  
 Religious Studies 2450 - Bible Survey  
 Religious Studies 2500 - Christianity  
 Religious Studies 2600 - Islam

**One of:**

Religious Studies 4000 - Seminars in Religious Studies (Series)  
 Religious Studies 4110 - Seminars in Eastern Religions (Series)  
 Religious Studies 4400 - Seminars in Western Religions (Series)

**One of<sup>1</sup>:**

Anthropology 2550 - Anthropology of Religion  
 Anthropology 3500 - Ritual, Practice, and Performance  
 Archaeology 3171 - Ancient Israel  
 Hebrew 1000 - Elementary Hebrew I  
 Hebrew 1100 - Elementary Hebrew II  
 History 3007 - Greek and Roman Mythology  
 History 3103 - The Crusades  
 History 3402 - The Reformation  
 Indigenous Studies 2000 - Native American Philosophy  
 Indigenous Studies 3000 - Native American Philosophy - Advanced  
 Latin 1000 - Elementary Latin I  
 Latin 1100 - Elementary Latin II  
 Philosophy 2010 - Ancient Philosophy  
 Philosophy 2210 - Philosophy of Religion  
 Philosophy 3260 - Metaphysics  
 Political Science 3500 - Pre-Modern Political Thought (Series)  
 Political Science 3525 - Politics of Reason and Revelation  
 Sociology 3330 - Sociology of Religion

Two additional courses (6.0 credit hours) in Religious Studies at the 2000 level selected from Eastern Religions or Western Religions

<sup>2</sup> Five additional courses (15.0 credit hours) in Religious Studies at the 3000/4000 level, excluding Religious Studies 3980 and 4980 (Applied Studies), and Religious Studies 4995 (Undergraduate Thesis)

**Notes**

<sup>1</sup> Most of the courses in this list have prerequisites that are not part of the major.

<sup>2</sup> A maximum of one Independent Study course (3.0 credit hours) may be used to fulfill the 3000/4000-level requirement.

From time to time, Topics courses in other disciplines will address the subject of religion. These will be considered for credit toward a Religious Studies major on an individual basis and must be approved by the Department Chair.

ab. **Sociology**

Number of courses required for the major: 10

**Required courses:**

Sociology 1000 - Introduction to Sociology  
 Sociology 2100 - Research Methodology  
 Sociology 2300 - Committing Sociology  
 Sociology 3210 - Classical Sociological Theory  
 Sociology 3220 - Contemporary Sociological Theory

**One of:**

Sociology 3110 - Survey Research  
 Sociology 3120 - Qualitative Research Methods

Four additional courses (12.0 credit hours) in Sociology at the 3000/4000 level

ac. **Urban and Regional Studies**

Students must complete 15 of the 21 courses normally required for the major in Urban and Regional Studies for the B.A. (see **Faculty of Arts and Science, Urban and Regional Studies (B.A.), p. 133**). At least six of the courses must be taken at the 3000/4000 level. Nine courses should be selected from the core list. The remaining six courses must include at least two disciplines. Please contact an Arts and Science academic advisor for more information.

ad. **Women and Gender Studies**

Number of courses required for the major: 13

**Required courses:**

Women and Gender Studies 1000 - Introduction to Women and Gender Studies  
 Women and Gender Studies 2300 - Feminist Theoretical Frameworks  
 Women and Gender Studies 2600 - Activism and Advocacy  
 Women and Gender Studies 2700 - Feminist Approaches to Research  
 Six courses (18.0 credit hours) in Women and Gender Studies at the 3000/4000 level  
 Three additional courses (9.0 credit hours) in Women and Gender Studies

**Notes**

With the permission of the Department Chair, students may take a maximum of two courses (6.0 credit hours) from other disciplines which offer related or complementary course materials.

Students may take more than one offering of a Series course or more than one Independent Study for credit if the offerings (as indicated by the specific titles) are distinct.

## 2. Bachelor of Management Majors

- a. Students may choose a B.Mgt. major in Accounting; Economics; Finance; General Management; Human Resource Management and Labour Relations; Indigenous Governance and Business Management; International Management; Marketing; and Political Science.

Students may complete two majors as part of a degree program in Management by completing the normal degree requirements including the specific requirements for both majors. Students who elect to complete a second major may be required to extend their program beyond 50 courses (see **Dhillon School of Business, Double Majors, p. 231**).

- b. All specific requirements for a B.Mgt. major must be fulfilled. Total requirements for each B.Mgt. major program follow:

### Minimum Grade Requirement

A minimum grade of 'C-' is required in Economics 1010; Economics 1012; Statistics 1770; Writing 1000 or English 1900; all Dhillon School of Business courses, including courses cross-listed with Dhillon School of Business courses; and all courses in the major marked with an asterisk (\*) in order to meet degree requirements.

#### 1. Accounting

Students choosing the Accounting major will be required to complete 23 Dhillon School of Business courses for the Management portion of the combined B.A./B.Mgt. and B.Sc./B.Mgt. degrees.

Accounting 3100 - Intermediate Financial Accounting I  
 Accounting 3101 - Intermediate Financial Accounting II  
 Accounting 3130 - Cost Accounting  
 Accounting 3131 - Management Control Systems  
 Accounting 3151 - Introduction to Tax  
 Accounting 3160 - Auditing  
 Accounting 4110 - Advanced Financial Accounting  
 Accounting 4151 - Advanced Tax  
 Accounting 4160 - Accounting Theory  
 Finance 3470 - Corporate Finance  
 Management 3010 - Business Law  
 Economics 3030 - Managerial Economics

#### One of:

Accounting 3180 - Analyzing Cases in Accounting  
 Accounting 3190 - Not-for-Profit and Public Sector Accounting and Performance Management  
 Accounting 4125/Agricultural Enterprise Management 4125 - Accounting and Agricultural Enterprises  
 Accounting 4130 - Advanced Management Accounting

#### One of:

Mathematics 1010 - Introduction to Calculus  
 Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1510 - Calculus for Management and Social Sciences

#### One of:

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Note:** Refer to **Residence Requirement (p. 215)** for the Accounting residence requirement.

*Students should choose an Indigenous content course offered by the Faculty of Arts & Science or the Faculty of Fine Arts, to be counted on the Arts & Science portion of their combined degree.*

## 2. Economics

- \*Economics 2750 - Quantitative Methods in Economics
- \*Economics 3010 - Intermediate Microeconomic Theory
- \*Economics 3012 - Intermediate Macroeconomic Theory

#### One of:

Mathematics 1010 - Introduction to Calculus  
 Mathematics 1510 - Calculus for Management and Social Sciences  
 Mathematics 1560 - Calculus I

#### One of:

- \*Economics 2900 - Economics and Business Statistics
- \*Statistics 2780 - Statistical Inference

\*Five Economics courses, four of which must be at the 3000 or 4000 level

#### Electives:

<sup>1</sup> Three 3000 or 4000-level Dhillon School of Business electives

<sup>1</sup> If students take an Indigenous content course offered by the Dhillon School of Business, then reduce electives by one.

**Note:** In the B.Mgt. Economics major, the unspecified Economics courses count toward the 20 courses required for the B.Mgt. portion of the B.A./B.Mgt or the B.Sc./B.Mgt.

**3. Finance**

Finance 3412 - Fundamentals of Investments  
 Finance 3470 - Corporate Finance  
 Finance 4430 - Financial Management  
 Mathematics 1510 - Calculus for Management and Social Sciences  
 Economics 3030 - Managerial Economics

**One of:**

Finance 4421 - Financial Institutions and Markets  
 Finance 4451 - Derivative Securities Markets

**Two of:**

Finance 3406 - Entrepreneurial Finance  
 Finance 3441 - Financial Analysis  
 Finance 3460 - Global Financial Management  
 Finance 3475/Agricultural Enterprise Management 3475 - Agricultural Finance and Markets  
 Finance 3480 - Personal Finance  
 Finance 3490 - FinTech  
 Finance 4421 - Financial Institutions and Markets  
 Finance 4451 - Derivative Securities Markets  
 Finance 4460 - Trading and Portfolio Management  
 Finance 4470 and Finance 4471 - Student Managed Investment Fund

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Electives:**

<sup>1</sup> Two 3000 or 4000-level Dhillon School of Business electives

<sup>1</sup> If students take an Indigenous content course offered by the Dhillon School of Business, then reduce electives by one.

**Note:** Refer to **Residence Requirement (p. 215)** for the Finance residence requirement.

**4. General Management**

Management 2700 - Business Research Methods  
 Six 3000 or 4000-level Dhillon School of Business courses

**Electives:**

<sup>1</sup> One 3000 or 4000-level Dhillon School of Business elective

<sup>1</sup> If students take an Indigenous content course offered by the Dhillon School of Business, then reduce electives by one.

**5. Human Resource Management and Labour Relations**

Human Resources and Labour Relations 3305 - Managing Employee Health and Safety  
 Human Resources and Labour Relations 3310 - Collective Labour Relations  
 Human Resources and Labour Relations 3312 - Strategic Compensation  
 Human Resources and Labour Relations 4305 - Canadian Labour and Employment Law  
 Human Resources and Labour Relations 4310 - Advanced Organizational Behaviour  
 Human Resources and Labour Relations 4350 - Staffing  
 Human Resources and Labour Relations 4355 - Training and Development  
 Management 2700 - Business Research Methods

**One of:**

Economics 2900 - Economics and Business Statistics  
 Statistics 2780 - Statistical Inference

**Note:** Students should choose an Indigenous content course offered by the Faculty of Arts & Science or the Faculty of Fine Arts, to be counted on the Arts & Science portion of their combined degree.

**6. Indigenous Governance and Business Management**

Indigenous Governance and Business Management 2500 - Introduction to Indigenous Governance and Business Management  
 Indigenous Governance and Business Management 3515/Indigenous Studies 3515 - Canadian Indigenous Negotiations  
 Indigenous Governance and Business Management 4570/Indigenous Studies 4570 - Indigenous Leadership and Management

\*Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

\*Indigenous Studies 2100 - Indigenous Peoples and Law

**One of the following Streams (a. or b.):****a. Governance**

Indigenous Governance and Business Management 3590/Indigenous Studies 3590 - Current Practices in



Canadian Indigenous Governance  
 Indigenous Governance and Business Management 4120/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

**Three of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources  
 Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management  
 Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)  
 Indigenous Governance and Business Management 4150/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments  
<sup>1</sup> Political Science 3215 - Indigenous Peoples and Local Government in Canada  
 \*Economics 3800 - Economic Development  
 Any offering in Indigenous Governance and Business Management 3850 or Indigenous Governance and Business Management 4850 with an emphasis on Indigenous Governance or Indigenous Law

**b. Business Management**

Indigenous Governance and Business Management 3250/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities  
 Indigenous Governance and Business Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

**Three of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources  
 Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management  
 Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)  
 Indigenous Governance and Business Management 4501/Indigenous Studies 4501 - Canadian Indigenous Tax Issues  
 Management 3070 - Supply Chain Management and Sustainability  
 Marketing 3225 - Brand Management  
 Marketing 3230 - Retailing Management  
 Marketing 3862 - Digital Marketing  
 Any offering in Indigenous Governance and Business Management 3850 or Indigenous Governance and Business Management 4850 with an emphasis on Indigenous Business Management

<sup>1</sup> Students should be aware that these courses have prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor. A minimum grade of 'C-' is required in these courses to meet degree requirements.

**Note:** In the B.Mgt. Indigenous Governance and Business Management major, all Indigenous Governance and Business Management/Indigenous Studies cross-listed courses, as well as all Stream A and Stream B electives, count toward the 20 courses required for the B.Mgt. portion of the B.A./B.Mgt. or the B.Sc./B.Mgt. The Indigenous Studies courses count towards the B.A. or B.Sc. portion of the B.A./B.Mgt. or the B.Sc./B.Mgt.

**7. International Management**

International Management 3640 - Cross-Cultural Management Practices  
 International Management 4650 - Integrated Trade and Supply Chain Management

**Two of (Global Strategy):**

Agricultural Enterprise Management 3635 - International Trade  
 Finance 3460 - Global Financial Management  
 International Management 3225/Geography 3225 - Industrial Location and Globalization of Enterprise  
 International Management 3606 - Business in Emerging Markets  
<sup>1</sup> International Management 3685 - Issues in International Management (Series)  
 International Management 3860 - Law and Institutions of International Trade  
 Management 3070 - Supply Chain Management and Sustainability  
 Management 4580 - Environmental Management  
<sup>2</sup> Economics 4590 - Economics of Globalization

**One of (Cultural Context):**

International Management 3170/Political Science 3170 - The Politics of Canadian Trade Policy  
 International Management 3665 - Leading in the Globalized Environment  
<sup>1</sup> International Management 3815 - Regional Aspects of International Management (Series)

- <sup>1</sup> International Management 4640 - Cross-Cultural Work Study (Series)
- Marketing 4220 - Cross-Cultural Marketing
- <sup>3</sup> Political Science 2110 - International Relations

**One of:**

- Geography 1200 - Introduction to Human Geography
- Geography 2000 - World Regional Geography

**One Exchange Term<sup>4</sup>:**

- Two 3000 or 4000-level Management courses
- Two electives chosen to meet the Liberal Education List Requirement (see School of Liberal Education, **Liberal Education List Requirement, p. 81**).

**Language Requirement<sup>5</sup>:**

In addition to completing an international exchange term as part of the major, students in the International Management major must complete three language courses (9.0 credit hours) in one of the following languages: French, Japanese, or Spanish.

**Elective:**

- <sup>6</sup> One 3000 or 4000-level Dhillon School of Business elective

**Notes**

<sup>1</sup> International Management 3685, International Management 3815, and International Management 4640 are Series courses. Students may take up to two of each Series course, but not exceed four Series courses, in total.

<sup>2</sup> A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>3</sup> Students should be aware that these courses have prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor. A minimum grade of 'C-' is required in these courses to meet degree requirements.

<sup>4</sup> Students are required to study at an international university for one term. The exchange courses are part of the 50 courses required by the Combined Degrees program. Students participating in a European exchange must complete a minimum of courses equivalent to 24.0 credits under the European Credit Transfer Accumulation System (ECTS). Course credits completed at an international university may vary from the University of Lethbridge credit system.

<sup>5</sup> All language courses completed prior to the exchange must have a minimum grade of 'C-'. In general, a student may not select their native language as the language of study.

<sup>6</sup> If students take an Indigenous content course offered by the Dhillon School of Business, then reduce electives by one.

**8. Marketing**

- Marketing 3210 - Consumer Behaviour
- Marketing 3215 - Introduction to Marketing Communications and Social Media
- Marketing 3220 - Marketing Research
- Marketing 4230 - Marketing Management
- Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception
- Sociology 1000 - Introduction to Sociology
- Economics 3030 - Managerial Economics

**One of:**

- Psychology 2330 - Learning and Cognition
- Psychology 2700 - Behaviour and Evolution
- Sociology 2300 - Committing Sociology
- Sociology 2410 - Sociology of Gender
- Sociology 2600 - The Individual and Society
- Sociology 2700/Health Sciences 2700 - Health and Society
- Sociology 3220 - Contemporary Sociological Theory
- Sociology 3420 - Sociology of Work

**One of:**

- Economics 2900 - Economics and Business Statistics
- Statistics 2780 - Statistical Inference

**Four of:**

- Marketing 3205 - Sports Marketing
- Marketing 3225 - Brand Management
- Marketing 3230 - Retailing Management
- Marketing 3240 - Business-to-Business Relationship Sales
- Marketing 3250 - Social Marketing
- Marketing 3260 - Not-for-Profit Marketing
- Marketing 3280 - Services Marketing Management
- Marketing 3290 - Marketing and Society
- Marketing 3806 - Small Business Management

Marketing 3862 - Digital Marketing  
 Marketing 4215 - Advanced Marketing Communications and Social Media  
 Marketing 4220 - Cross-Cultural Marketing

**Note:** Students should choose an Indigenous content course offered by the Faculty of Arts & Science or the Faculty of Fine Arts, to be counted on the Arts & Science portion of their combined degree.

### Marketing Concentrations

If students wish to further specialize within the field of Marketing, they may choose a concentration in Marketing Communications or Socially Responsible Marketing. Concentrations are not required. Students who choose a concentration will replace the 'Four of' requirement above with the courses in the chosen concentration, listed below.

#### a. Marketing Communications Concentration

Marketing 3862 - Digital Marketing  
 Marketing 4215 - Advanced Marketing Communications and Social Media

##### Two of:

Management 3980 - Applied Studies/Field Experience I (with a marketing communications focus)  
 Management 3990 - Independent Study (with a marketing communications focus)  
 Marketing 3225 - Brand Management  
<sup>1</sup>New Media 2005 - Design Fundamentals for New Media  
<sup>1</sup>New Media 2010 - Visual Communications for New Media  
 New Media 3250 - Media, Advertising, and Consumer Culture  
 New Media 3700 - Event and Exhibition Design

#### b. Socially Responsible Marketing Concentration

##### Two of:

<sup>2</sup>Marketing 3250 - Social Marketing  
<sup>2</sup>Marketing 3260 - Not-for-Profit Marketing  
<sup>2</sup>Marketing 3290 - Marketing and Society

##### Two of:

International Management 3552 - Sustainable Tourism  
<sup>3</sup>International Management 4640 - Cross-Cultural Work Study (Series)  
 Management 3710 - Managing Not-for-Profit Organizations  
 Management 3980 - Applied Studies/Field Experience I (with a not-for-profit organization)  
 Management 4580 - Environmental Management  
<sup>2</sup>Marketing 3250 - Social Marketing  
<sup>2</sup>Marketing 3260 - Not-for-Profit Marketing  
<sup>2</sup>Marketing 3290 - Marketing and Society  
 New Media 3250 - Media, Advertising, and Consumer Culture

### Notes

<sup>1</sup>Students should be aware that these courses have prerequisites which may require taking courses extra to their minimum degree requirements. Students are strongly advised to discuss their program with an academic advisor early in their program.

<sup>2</sup>Students cannot use Marketing 3250, Marketing 3260, and Marketing 3290 to fulfill requirements from both "Two of:" lists.

<sup>3</sup>The work study placement must have a primary focus on social responsibility, social marketing, or it must be housed within a non-for-profit organization in order to receive credit for the Socially Responsible Marketing Concentration.

#### 9. Political Science

Management 2700 - Business Research Methods  
 Political Science 1000 - Introduction to Political Science  
 Political Science 2210 - Canadian Politics and Government

\*Six Political Science courses, four of which must be at the 3000 or 4000 level

##### Electives:

<sup>1</sup>One 3000 or 4000-level Dhillon School of Business elective

<sup>1</sup>If students take an Indigenous content course offered by the Dhillon School of Business, then reduce electives by one.

**Note:** In the B.Mgt. Political Science major, the unspecified Political Science courses count toward the 20 courses required for the B.Mgt. portion of the B.A./B.Mgt. or the B.Sc./B.Mgt.

#### f. Sample Sequencing Plan

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

#### g. Academic Regulations

In the Combined Degrees program, students divide their time between two different Faculties or Schools which have different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.A./B.Mgt. or B.Sc./B.Mgt., students should be aware of the **Faculty of Arts and Science (p. 87)** regulations and the **Dhillon School of Business (p. 207)** regulations.

#### h. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge, including 10 Dhillon School of Business courses at the 3000 or 4000 level, and 20 courses offered by the Faculty of Arts and Science or Faculty of Fine Arts, including at least one-half of the required courses for the Arts and Science major. In addition to meeting program residence requirements, students in the:

Accounting majors must complete five of the following courses at the University of Lethbridge: Accounting 3100, Accounting 3101, Accounting 3130, Accounting 3131, Accounting 3151, Accounting 3160, Accounting 3171, Accounting 3180, Accounting 3190, Accounting 4110, Accounting 4125/Agricultural Enterprise Management 4125, Accounting 4130, Accounting 4151, Accounting 4160.

Finance majors must complete all courses from the following list, and which are part of their program, at the University of Lethbridge: Finance 3412, Finance 3441, Finance 3460, Finance 3470, Finance 3480, Finance 4421, Finance 4430, Finance 4451.

## 10. BACHELOR OF FINE ARTS - NEW MEDIA/BACHELOR OF SCIENCE (COMPUTER SCIENCE)

The Faculties of Fine Arts and Arts and Science jointly offer a 50-course (150.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Fine Arts - New Media with a major in New Media and Bachelor of Science with a major in Computer Science. Upon successful completion of this Combined Degrees program, the student receives the B.F.A. - New Media degree from the Faculty of Fine Arts and the B.Sc. degree from the Faculty of Arts and Science.

### a. Admission

Applicants are accepted to the B.F.A. - New Media/B.Sc. for the fall term only. All applicants to the B.F.A. - New Media/B.Sc. program must meet the general admission requirements outlined in **Admission (p. 21)**.

In addition, applicants must satisfactorily complete Mathematics 30-I or equivalent.

### b. Degree requirements for the B.F.A. - New Media/B.Sc.

1. Completion of at least 50 courses (150.0 credit hours) from disciplines offered by the Faculty of Fine Arts, the Faculty of Arts and Science, or the School of Liberal Education with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
2. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) on all New Media courses.
3. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
4. Not more than three Independent Study courses (9.0 credit hours) may be completed for credit towards the program.
5. Residence requirement: a minimum of 15 courses from disciplines offered by the Faculty of Fine Arts and a minimum of 15 courses from disciplines offered by the Faculty of Arts and Science or the School of Liberal Education must be completed at the University of Lethbridge, including a minimum of seven courses (21.0 credit hours) in New Media and a minimum of seven courses (21.0 credit hours) in Computer Science.

### Required Courses:

Art 2033 - Spatial Practice I  
 Computer Science 1620 - Fundamentals of Programming I  
 Computer Science 1820 - Discrete Structures  
 Computer Science 2610 - Introduction to Digital Systems  
 Computer Science 2620 - Fundamentals of Programming II  
 Computer Science 2720 - Practical Software Development  
 Computer Science 3615 - Computer Architecture  
 Computer Science 3620 - Data Structures and Algorithms  
 Computer Science 3740 - Programming Languages  
 Mathematics 2000 - Mathematical Concepts  
 New Media 1000 - Introduction to New Media  
 New Media 2005 - Design Fundamentals for New Media  
 New Media 2010 - Visual Communications for New Media  
 New Media 2030 - Digital Video Production  
 New Media 2150 - Memes, Influencers, and Digital Convergence  
 New Media 3030 - 3-D Computer Modelling and Animation  
 New Media 3150 - Seminar in New Media Studies  
 New Media 3380 - Programming for Artists  
 New Media 3420 - Narrative for New Media  
 New Media 3520 - Web Design and Development  
 New Media 3680 - Interaction Design  
 New Media 3900 - Portfolio and Professional Practice

### One of:

- New Media 3040 - Colour Theory and Digital Photo Manipulation
- <sup>1</sup>New Media 3110/Cinema 3110 - Postproduction and Visual Effects
- New Media 3310 - Game Design: Theory and Practice
- New Media 3640 - Character Animation I
- New Media 3700 - Event and Exhibition Design
- New Media 3720 - The Dynamic Web
- New Media 3810 - Expanded Cinema

New Media 3820 - Information Design  
 New Media 4420/Cinema 4420 - Screenwriting  
 New Media 4520 - Advanced Web Design  
 New Media 4820/Cinema 4820 - Writing for Comedy  
 New Media 4830 - Theory and Practice of Motion Capture

**One of:**

New Media 3250 - Media, Advertising, and Consumer Culture  
 New Media 3300 - Theory and Aesthetics of Digital Games  
 New Media 3550/Cinema 3550 - History of Animation  
 New Media 3560 - Popular Narrative  
 New Media 3650 - Modern Media, War and Propaganda

**One of:**

Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400

**One of:**

Mathematics 1410 - Elementary Linear Algebra  
 Mathematics 1510 - Calculus for Management and Social Sciences  
 Mathematics 1560 - Calculus I  
 Mathematics 1565 - Accelerated Calculus I  
 Statistics 1770 - Introduction to Probability and Statistics

One New Media elective (3.0 credit hours) at the 3000/4000 level

**Either:**

New Media 4651 - Internship (12.0 credit hours)  
 New Media 4661 - Internship Project (3.0 credit hours)

**OR****One of:**

New Media 4690 - Advanced Studio (6.0 credit hours)  
 New Media 4995 - Undergraduate Thesis (6.0 credit hours)

Three New Media electives (9.0 credit hours) at the 3000/4000 level

Six additional courses (18.0 credit hours) in Computer Science at the 3000/4000 level

Two courses (6.0 credit hours) in Computer Science at the 4000 level, excluding Computer Science 4850 (Topics), Computer Science 4980 (Applied Studies), and Computer Science 4990 (Independent Study)

Four courses (12.0 credit hours) from List II: Social Sciences

Three additional courses (15.0 credit hours) from the Faculty of Fine Arts

Three additional courses (15.0 credit hours) from the Faculty of Arts and Science or School of Liberal Education

**Recommended course:**

Computer Science 3710 - Computer Graphics

**Notes**

<sup>1</sup> Prerequisite required: Cinema 1000

To determine if a given course has a Social Science designation, see List II: Social Science Courses (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

Some senior courses are scheduled for alternate years. Since these courses are frequently sequential and dependent upon adequate preparation, students are urged to seek advice before the end of their third term in planning a major and selecting courses.

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in Computer Science and Mathematics.

**c. Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**II. BACHELOR OF FINE ARTS - NEW MEDIA/BACHELOR OF MANAGEMENT**

The Faculty of Fine Arts and the Dhillon School of Business jointly offer a 50-course (150.0 credit hours) Combined Degrees program leading to the degrees (Bachelor of Fine Arts - New Media (B.F.A. - New Media) and Bachelor of Management (B.Mgt.). Upon successful completion of the Combined Degrees program, the student receives the B.F.A. - New Media degree from the Faculty of Fine Arts and the B.Mgt. degree from the Dhillon School of Business.

The B.F.A. - New Media/B.Mgt. Combined Degrees program may be completed in 50 courses when the General Management major is

chosen for the B.Mgt. degree. Students who choose to complete a different B.Mgt. major may be required to extend their programs beyond 50 courses. See **Dhillon School of Business Degree Requirements for the 50-Course B.F.A. - New Media/B.Mgt. (p. 310)** for details.

**a. Admission**

Applicants may be admitted to the B.F.A. - New Media/B.Mgt. when they are admitted to the University. Enrolment in both the Faculty of Fine Arts and the Dhillon School of Business is limited and fulfillment of the minimum admission requirements does not guarantee admission. Applications are accepted for the B.F.A. - New Media/B.Mgt. program for the fall term only. Applicants should consult **Admission (p. 21)** for general admission requirements, policies and deadlines.

In addition to the general admission requirements outlined in **Admission (p. 21)**, all applicants to the B.F.A. - New Media/B.Mgt. must satisfy the following requirements:

1. Satisfactorily complete the following Alberta high school math course, University of Lethbridge's Mathematics 0500, or equivalent.

Major	Additional Admission Requirement
<b>Quantitative Majors:</b> Accounting, Economics, Finance	Mathematics 30-1
<b>Non-Quantitative Majors:</b> All other Management majors	One of: Mathematics 30-1 or Mathematics 30-2

2. Applicants are selected for admission to this competitive program based on academic proficiency, as demonstrated by grade achievement.
3. Time Limit for Retention of Course Credit  
Students may receive transfer credit for both Dhillon School of Business and non-Dhillon School of Business courses. Dhillon School of Business courses must have been completed at a recognized post-secondary institution not more than eight years prior to admission to the Dhillon School of Business.  
The Dhillon School of Business will consider requests, on a case-by-case basis, to extend this time limit for applicants with recent work experience in the field.

**b. General Requirements for the 50-Course B.F.A. - New Media/B.Mgt.**

1. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
2. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses and courses numbered in the range of 0520 to 0530 are exempted from this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
3. Residence requirement: see **Academic Regulations, Residence Requirements and Time Limits (p. 58)** for details.

**c. Faculty of Fine Arts Degree Requirements for the 50-Course B.F.A. - New Media/B.Mgt.**

1. Successful completion of 30 course equivalents (90.0 credit hours) with a cumulative GPA of at least 2.00 on courses taken for credit towards the degree.
2. A minimum GPA of 2.50 in all courses from the Department of New Media taken for credit towards the degree.
3. A minimum of nine New Media courses (27.0 credit hours) at the 3000 or 4000 level.
4. A maximum of three Independent Studies (9.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 56**).
5. Completion of the following courses:

Art 2033 - Spatial Practice I  
 New Media 1000 - Introduction to New Media  
 New Media 2005 - Design Fundamentals for New Media  
 New Media 2010 - Visual Communications for New Media  
 New Media 2030 - Digital Video Production  
 New Media 2150 - Memes, Influencers, and Digital Convergence  
 New Media 3030 - 3-D Computer Modelling and Animation  
 New Media 3150 - Seminar in New Media Studies  
 New Media 3380 - Programming for Artists  
 New Media 3420 - Narrative for New Media  
 New Media 3520 - Web Design and Development  
 New Media 3680 - Interaction Design  
 New Media 3900 - Portfolio and Professional Practice

**One of:**

New Media 3040 - Colour Theory and Digital Photo Manipulation

\*New Media 3110/Cinema 3110 - Postproduction and Visual Effects  
 New Media 3310 - Game Design: Theory and Practice  
 New Media 3640 - Character Animation I  
 New Media 3700 - Event and Exhibition Design  
 New Media 3720 - The Dynamic Web  
 New Media 3810 - Expanded Cinema  
 New Media 3820 - Information Design  
 New Media 4420/Cinema 4420 - Screenwriting  
 New Media 4520 - Advanced Web Design  
 New Media 4820/Cinema 4820 - Writing for Comedy  
 New Media 4830 - Theory and Practice of Motion Capture

**One of:**

New Media 3250 - Media, Advertising, and Consumer Culture  
 New Media 3300 - Theory and Aesthetics of Digital Games  
 New Media 3550/Cinema 3550 - History of Animation  
 New Media 3560 - Popular Narrative  
 New Media 3650 - Modern Media, War and Propaganda

**One of:**

Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400

Three New Media elective (9.0 credit hours) at the 3000/4000 level

Three additional courses from the Faculty of Fine Arts

Two Science electives

Two electives

*\*Prerequisite required: Cinema 1000*

**d. Dhillon School of Business Degree Requirements for the 50-Course B.F.A. - New Media/B.Mgt.**

The Dhillon School of Business offers courses in the following subject areas: Accounting (ACCT), Agricultural Enterprise Management (AGEM), Finance (FINC), Human Resources and Labour Relations (HRLR), Indigenous Governance and Business Management (IGBM), International Management (IMGT), Management (MGT), and Marketing (MKTG).

1. A minimum grade of 'C-' is required in Economics 1010; Economics 1012; Statistics 1770; Writing 1000 or English 1900; and all Dhillon School of Business courses.
2. A minimum graduation GPA of 2.00 in Dhillon School of Business courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 215**).
3. Completion of a minimum of 20 Dhillon School of Business courses including all courses required for the General Management Major listed below:

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Management 1500 - Fundamentals of Business  
 Statistics 1770 - Introduction to Probability and Statistics  
 Marketing 2020 - Marketing  
 Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 2081 - Professional Communications Skills  
 Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Management 2700 - Business Research Methods  
 Management 3031 - Managing Responsibly in a Global Environment  
 Finance 3040 - Finance  
 Human Resources and Labour Relations 3050 - Human Resource Management  
 International Management 3650 - Introduction to International Management  
 Management 4090 - Management Policy and Strategy

**One of:**

Management 3062 - Information Systems and Data Analytics  
 Accounting 3171 - Accounting Information Systems and Data Analytics  
 Management 3622 - Visual Analytics

**One of the following with Indigenous content, to meet a Liberal Education List requirement<sup>1</sup>:**

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list  
 Any course from the Indigenous Studies (INDG) subject codes list  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Art History 3152 - Indigenous Art History (Series)  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2210 - Structure of the Blackfoot Language

Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language  
 Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation  
 Political Science 3215 - Indigenous Peoples and Local Government in Canada

**One of:**

- <sup>2</sup> Final grade of 80% or higher in AB high school English Language Arts 30-I (or equivalent 5-credit course)
- <sup>2</sup> Successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))
- Writing 1000 - Introduction to Academic Writing
- English 1900 - Introduction to Language and Literature

<sup>1</sup> Six 3000 or 4000-level Dhillon School of Business courses

**Notes**

<sup>1</sup> Please note that the Indigenous content course requirement may count on the Faculty of Fine Arts (B.F.A.-New Media), or the Dhillon School of Business (B.Mgt.) side of your program depending on which course students choose. Please consult with an academic advisor. If students take an Indigenous content course offered by the Dhillon School of Business, then reduce electives by one.

<sup>2</sup> Students who meet the writing requirement through the high school grade or the challenge exam will need to substitute an open elective for Writing 1000 or English 1900.

Students should be aware that these are the requirements for the General Management major only. Students may choose to complete a different Management major in the Combined Degrees program. If students choose a different Management major, they may be required to extend their programs beyond 50 courses. See Management Majors, **Major Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt. (p. 286)** for major requirements. Computer Science majors will refer to Dhillon School of Business, **Bachelor of Management (B.Mgt.) Majors (p. 217)** for course requirements. Agricultural Enterprise Management is only available in the B.Mgt. 40-course degree program.

4. All degree requirements must be completed within 10 years after admission to the Dhillon School of Business.
5. Students are advised to take the following courses by the end of their second year: Accounting 2100; Management 1500; Economics 1010; Economics 1012; Statistics 1770; and Writing 1000, English 1900, or successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs)).

**e. Academic Regulations**

time between two different Faculties or Schools which have different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.F.A. - New Media/B.Mgt, students should be aware of the **Faculty of Fine Arts (p. 167)** regulations and the **Dhillon School of Business (p. 207)** regulations.

**f. Residence Requirement**

Students must complete a minimum of 30 courses at the University of Lethbridge including seven New Media courses and 10 Dhillon School of Business courses at the 3000 or 4000 level.

**g. Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

## 12. BACHELOR OF HEALTH SCIENCES/BACHELOR OF MANAGEMENT

The Faculty of Health Sciences and the Dhillon School of Business jointly offer a 50-course (150.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Health Sciences (B.H.Sc.) and Bachelor of Management (B.Mgt.) Upon successful completion of the Combined Degrees program, the student receives the B.H.Sc. degree from the Faculty of Health Sciences and the B.Mgt. degree from the Dhillon School of Business.

The Combined Degrees program may be completed in 50 courses when the General Management or Human Resource Management and Labour Relations major is chosen for the B.Mgt. degree. Students who choose to complete a different B.Mgt. major may be required to extend their program beyond 50 courses. The B.H.Sc. in the Combined Degrees program is available only with the major in Public Health.

**a. Admission**

Applicants may be admitted to the B.H.Sc./B.Mgt. when they are admitted to the University. Enrolment in both the Faculty of Health Sciences and the Dhillon School of Business is limited and fulfillment of the minimum admission requirements does not guarantee admission. Students are not officially in the B.H.Sc./B.Mgt. Combined Degrees program until they have been admitted to both the Faculty of Health Sciences and the Dhillon School of Business.

In addition to the general admission requirements outlined in **Admission (p. 21)**, all applicants to the B.H.Sc./B.Mgt. Combined



Degrees program must satisfy the following Alberta high school courses or equivalents:

Major	Additional Admission Requirement
<b>Quantitative Majors:</b> Accounting, Economics, Finance	Mathematics 30-I
<b>Non-Quantitative Majors:</b> All other Management majors	Biology 30 Chemistry 30 English Language Arts 30-I One of: Mathematics 30-I or Mathematics 30-2

1. Spoken English Language Proficiency Requirement (SELP)

In addition to the English Language Proficiency requirement for general admission to the University of Lethbridge (see **Admission, English Language Proficiency (ELP), p. 30**), applicants to the B.H.Sc./B.Mgt. must also meet the Faculty of Health Sciences' Spoken English Language Proficiency (SELP) requirement (see **Faculty of Health Sciences, Spoken English Language Proficiency Requirement (SELP), p. 197**).

b. **General Requirements for the 50-Course B.H.Sc./B.Mgt.**

1. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).
2. Not more than 10 courses may be taken at the 0100/1000 level for credit toward the degree. Activity courses are exempted from this limit. Language courses are offered in the 0100-1990 range. Only the first course in the range counts toward this limit in the language subjects of French, German, Greek, Japanese, Latin and Spanish. Only one of Economics 1010 and Economics 1012 will be counted toward this limit. Only one of Biology 1010 and Biology 1020 will be counted toward this limit. Only one of Geography 1000 and Geography 1200 will be counted toward this limit (see **Academic Regulations, Exceeding Course Limits, p. 56**).
3. Students must complete a minimum of 30 courses (90.0 credit hours) at the University of Lethbridge, including a minimum of 15 Health Sciences courses and 10 Dhillon School of Business courses at the 3000 or 4000 level.

c. **Faculty of Health Sciences Degree Requirements for the 50-Course B.H.Sc./B.Mgt.**

1. A minimum GPA of 2.50 in all Public Health courses taken and a cumulative GPA of at least 2.00 (on the University of Lethbridge 4.0 scale) on courses for credit towards the degree.
2. All degree requirements must be completed within seven years after the first Public Health course taken towards the degree.
3. Completion of the Public Health major comprising the following courses:

**Core Courses:**

Public Health 1000 - Introduction to Public Health  
 Public Health 2000 - Population Health  
 Public Health 2100 - Policy and Health  
 Public Health 3000 - Canadian and Global Perspectives  
 Public Health 3100 - Health and the Environment  
 Public Health 3420 - Public Health Ethics  
 Public Health 4000 - Advanced Public Health  
 Anthropology 1000 - The Anthropological Perspective  
 Biology 1010 - Cellular Basis of Life  
 Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 Health Sciences 2003/Biology 2003 - Epidemiology  
 Health Sciences 2310 - Human Nutrition  
 Health Sciences 2400 - Medical Microbiology  
 Health Sciences 2700/Sociology 2700 - Health and Society  
 Health Sciences 3002 - Health Promotion  
 Health Sciences 3260 - Research in the Health Sciences  
 Health Sciences 3450/Psychology 3450 - Applied Statistics for Clinical Practice  
 Sociology 1000 - Introduction to Sociology

**One of:**

Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Health Sciences 3510 - Program Planning and Evaluation

**One of:**

Writing 1000 - Introduction to Academic Writing  
 English 1900 - Introduction to Language and Literature

**Electives:**

Three Fine Arts and Humanities electives  
Five Public Health/Health Sciences electives

**d. Dhillon School of Business Degree Requirements for the 50-Course B.H.Sc./B.Mgt.**

The Dhillon School of Business offers courses in the following subject areas: Accounting (ACCT), Agricultural Enterprise Management (AGEM), Finance (FINC), Human Resources and Labour Relations (HRLR), Indigenous Governance and Business Management (IGBM), International Management (IMGT), Management (MGT), and Marketing (MKTG).

1. A minimum grade of 'C-' is required in Economics 1010; Economics 1012; Health Sciences 3450/Psychology 3450; Writing 1000 or English 1900; all Dhillon School of Business courses, including those cross-listed with Dhillon School of Business courses.
2. A minimum graduation GPA of 2.00 in Dhillon School of Business courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 215**). A student must also attain a minimum cumulative GPA of 2.00 on courses taken at the University of Lethbridge.
3. All B.Mgt. degree requirements must be completed within 10 years after admission to the Dhillon School of Business.
4. Students will complete a minimum of 20 Dhillon School of Business courses including the core and major course requirements listed below:

**Core Requirements**

Management 1500 - Fundamentals of Business  
Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
Management 2070/Economics 2070 - Operations and Quantitative Management  
Management 2081 - Professional Communications Skills  
Accounting 2100 - Introductory Accounting  
Accounting 2400 - Management Accounting  
Management 3031 - Managing Responsibly in a Global Environment  
Finance 3040 - Finance  
Human Resources and Labour Relations 3050 - Human Resource Management  
Marketing 3250 - Social Marketing  
International Management 3650 - Introduction to International Management  
Management 4090 - Management Policy and Strategy

**One of:**

Management 3062 - Information Systems and Data Analytics  
Accounting 3171 - Accounting Information Systems and Data Analytics  
Management 3622 - Visual Analytics

**One of the following with Indigenous content:**

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list  
Any course from the Indigenous Studies (INDG) subject codes list  
Aboriginal Health 1000 - Introduction to Aboriginal Health  
Art History 3152 - Indigenous Art History (Series)  
Blackfoot 1000 - Introductory Spoken Blackfoot  
Cree 1000 - Introductory Spoken Cree  
Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation  
<sup>1</sup> Political Science 3215 - Indigenous Peoples and Local Government in Canada

5. Students may choose a B.Mgt. major in either General Management or Human Resource Management and Labour Relations, where all specific requirements for the selected B.Mgt. major must be fulfilled. Requirements for each B.Mgt. major program follow:

**General Management**

Six 3000 or 4000-level Dhillon School of Business courses

**Electives:**

One 3000 or 4000-level Dhillon School of Business elective

**Human Resource Management and Labour Relations**

Human Resources and Labour Relations 3305 - Managing Employee Health and Safety  
Human Resources and Labour Relations 3310 - Collective Labour Relations  
Human Resources and Labour Relations 3312 - Strategic Compensation  
Human Resources and Labour Relations 4305 - Canadian Labour and Employment Law  
Human Resources and Labour Relations 4310 - Advanced Organizational Behaviour  
Human Resources and Labour Relations 4350 - Staffing  
Human Resources and Labour Relations 4355 - Training and Development

**Notes**

<sup>1</sup> Students should be aware that some of the above courses have prerequisites which may require taking courses extra to their degrees. Check with an academic advisor for more information.

Students may choose to complete a different B.Mgt. major in this Combined Degrees program, but they may be required to extend their programs beyond 50 courses. See **Management Majors, Major Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt. (p. 286)** for major requirements. Computer Science majors will refer to Dhillon School of Business, **Bachelor of Management (B.Mgt.) Majors (p. 217)** for course requirements. Agricultural Enterprise Management is only available in the B.Mgt. 40-course degree program. When another major is chosen and is based on the major requirements from a different program, a minimum grade of 'C-' is required in courses marked with an asterisk (\*) in those programs, in order to meet degree requirements.

**e. Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**f. Academic Regulations**

In the Combined Degrees program, students divide their time between two different Faculties or Schools which have different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the B.H.Sc./B.Mgt., students should be aware of the **Faculty of Health Sciences (p. 193)** regulations and the **Dhillon School of Business (p. 207)** regulations.

### 13. POST-DIPLOMA COMBINED DEGREES PROGRAMS IN FINE ARTS AND EDUCATION

The Faculties of Fine Arts and Education jointly offer a 35-course (105.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Fine Arts - Art (B.F.A. - Art), Bachelor of Fine Arts - Dramatic Arts (B.F.A. - Dramatic Arts), or Bachelor of Music (B.Mus.), and Bachelor of Education (B.Ed.) to holders of eligible diplomas in Art, Theatre or Dramatic Arts, or Music. Upon successful completion of the Combined Degrees program, the student receives the B.F.A. - Art, B.F.A. - Dramatic Arts, or B.Mus. degree from the Faculty of Fine Arts and the B.Ed. degree from the Faculty of Education.

**Note:** The B.F.A. - Multidisciplinary is not available as a Post-Diploma Combined Degrees program.

**a. Admission**

Students begin in the Pre-Post-Diploma B.F.A. - Art or Dramatic Arts/B.Ed. or Pre-Post-Diploma B.Mus./B.Ed. program in the Faculty of Fine Arts. After completion of 10 courses (30.0 credit hours), including Education 2500 (or equivalent), students must apply for admission to the Faculty of Education. Students are not officially in the Post-Diploma Combined Degrees program until they have been admitted to both the Faculty of Fine Arts and the Faculty of Education.

Applications are accepted for the Pre-B.F.A. - Art/B.Ed., the Pre-B.F.A. - Dramatic Arts/B.Ed., and the Pre-B.Mus./B.Ed. programs for the fall term only. Applicants should consult **Admission (p. 21)** for general admission requirements, policies, and deadlines.

**1. Faculty of Fine Arts Admission Requirements for the Pre-Post-Diploma B.F.A. - Art, Pre-Post-Diploma B.F.A. - Dramatic Arts/B.Ed., and Pre-Post-Diploma B.Mus./B.Ed.**

- a. Completion of an approved two- or three-year college diploma in Art, Theatre or Dramatic Arts, or Music with a cumulative diploma GPA of at least 2.50.

See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to Post-Diploma degree programs in the Faculty of Fine Arts. The Faculty will consider diplomas not previously approved for admission on a case-by-case basis.

**Note:** Approval is dependent upon the diploma program containing the courses required for the first two years of the B.F.A. - Art or Dramatic Arts, or B.Mus. program. The diploma program must include a minimum of 16 courses in the discipline.

- b. For the Pre-B.Mus./B.Ed., a live audition or 20-minute video demonstrating musicianship, musical development, overall ability, and potential. Applicants to the Pre-Post-Diploma B.Mus./B.Ed. program must successfully audition into Studio V - Instrument (Music Studio 3548) to be eligible for admission. The audition application and additional information are available at: [www.ulethbridge.ca/finearts/admissions](http://www.ulethbridge.ca/finearts/admissions)

Also see **Faculty of Fine Arts, Bachelor of Music (p. 168)**.

**2. Faculty of Education Admission Requirements for the Post-Diploma B.F.A. - Art, Post-Diploma B.F.A. - Dramatic Arts/B.Ed., and Post-Diploma B.Mus./B.Ed.**

Based on the Faculty's quota system, normally a total of 216 students will be admitted to Bachelor of Education programs (Combined Degrees and After Degree) each year. Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combined Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Credit in Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses completed within the terms containing the last 14 courses (42.0 credit hours). If any part of the diploma falls within the last 14 courses (42.0 credit hours), the entirety of the diploma (i.e., the diploma GPA) is included in the calculation. All courses must be graded with the exception of Education 2500.

- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on the completed diploma and all additional graded courses comprising the major:  
 Art: Art, Art History, and Museum Studies courses  
 Dramatic Arts: Drama courses  
 Music: Music and Music Ensemble Activity courses
- d. Special Case Admission  
 Applicants who have a satisfactory academic record but who, for some reason, had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.
- e. Admission Procedures Available to Students of Aboriginal Descent  
 The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.
- f. Returning after Withdrawal or Required Withdrawal from the Faculty of Education  
 Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

**b. Faculty of Fine Arts Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.F.A. - Art or Dramatic Arts/B.Ed. or Post-Diploma B.Mus./B.Ed.**

1. Completion of at least 15 courses from disciplines offered by the Faculty of Fine Arts, the Faculty of Arts and Science, or the School of Liberal Education with a GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).
2. Completion of a minimum of eight courses (24.0 credit hours) in the discipline (Art, Art History, Drama, Museum Studies, or Music) with a GPA of at least 2.50 (on the University of Lethbridge 4.0 scale). These courses will be a subset of the courses currently required in the B.F.A. - Art or Dramatic Arts/B.Ed. or B.Mus./B.Ed. programs.
3. Completion of seven courses from the Social Sciences and Sciences to fulfill the Liberal Education List Requirement as follows (see **School of Liberal Education, Liberal Education List Requirement, p. 81**):
  - a. Two courses from each of List II: Social Sciences and List III: Sciences.
  - b. Three additional courses from either of these two areas.
4. Completion of at least eight courses (24.0 credit hours) at the 3000/4000 level.
5. A maximum of three Independent Studies (see **Academic Regulations, Exceeding Course Limits, p. 56**).
6. The entire program must be approved in advance by an academic advisor in the Faculty of Fine Arts.
  - a. Required Art, Art History and Museum Studies Courses:  
 Art 2010 - Drawing Studio I  
 Art 2350/Indigenous Studies 2350 - Indigenous Art Studio I  
 Art 4048 - Senior Studio I (6.0 credit hours)  
 Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400  
 Art History 3001 - Theory and Methods in Art and Art History  
 Art History 3245 - Canadian Art History from 1960 to the Present  
 Art History 3270 - Global Art Since 1980  
**One of (3.0 credit hours):**  
 Art 2060 - Media Arts (Digital Sketchbook)  
 Art 2061 - Media Arts (Video Sketchbook)  
**One of (3.0 credit hours):**  
 Art 3261 - Art NOW  
 Art 3262 - Art NOW  
**Art Studio: List I**  
**Three of (9.0 credit hours):**  
 \*Art 2015 - Art Studio (Series)  
 Art 2005 - Print Studio (Without a Press) OR Art 2006 - Print Studio (With a Press)  
 Art 2023 - Painting Studio I  
 Art 2027 - Photography Studio I  
 Art 2033 - Spatial Practice I  
 Art 2060 - Media Arts (Digital Sketchbook) OR Art 2061 - Media Arts (Video Sketchbook)  
**Art Studio: List II**  
**Five of (12.0 credit hours):**  
 Art 3007 - Print Studio III  
 Art 3010 - Drawing Studio II

Art 3011 - Drawing Studio III  
 \*Art 3015 - Art Studio (Series)  
 Art 3023 - Painting Studio II  
 Art 3024 - Painting Studio III  
 Art 3027 - Photography Studio II  
 Art 3028 - Photography Studio III  
 Art 3033 - Spatial Practice II  
 Art 3034 - Spatial Practice III  
 Art 3035 - Social Practice in Art  
 Art 3062 - Media Arts III  
 Art 3350/Indigenous Studies 3350 - Indigenous Art Studio II  
 Art 3355/Indigenous Studies 3355 - Landmarks

### **Art History: List A**

#### **Two of (6.0 credit hours):**

Art History 3200 - Issues in 19th-Century Art and Culture  
 Art History 3215 - 20th-Century Art History to 1945  
 Art History 3220 - Art from 1945 to 1980  
 Art History 3240 - Canadian Art History to 1960  
 Museum Studies 2900 - Introduction to Museum Studies

### **Art History: List B**

#### **One of (3.0 credit hours):**

Art History 3151 - Art History (Series)  
 Art History 3152 - Indigenous Art History (Series)  
 Art History 3850 - Topics in Art History  
 Art History 4150 - Art History (Series)  
 Museum Studies 3850 - Topics in Museum Studies  
 Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display  
 Museum Studies 4000 - Museum Studies Internship

\*A student may complete multiple offerings of Art 2015 and/or Art 3015 to meet degree requirements.

#### **b. Required Drama courses:**

Drama 1000 - Introduction to Dramatic Arts  
 Drama 2010 - Performance Fundamentals  
 Drama 2100 - Play Reading and Analysis  
 Drama 2120 - History and Development of Theatre I  
 Drama 2130 - History and Development of Theatre II  
 Drama 2310 - Acting I  
 Drama 2420 - Directing I  
 Drama 2810 - Introduction to Stagecraft  
 Drama 3100 - Theatre in Performance  
 Drama 3420 - Directing II  
 Drama 3600 - Drama Portfolio II  
 Drama 3611 - Advanced Stagecraft I

#### **One of:**

Drama 2320 - Voice I  
 Drama 2340 - Movement I  
 Drama 2510 - Theatre for Young Audiences I  
 Drama 2740 - Devised Theatre I

#### **One of:**

Drama 3130 - Canadian Theatre  
 Drama 3150 - Theatre Studies (Series)  
 Drama 3151 - Play Reading and Analysis II  
 Drama 3160 - Dramaturgy

#### **c. Required Music courses:**

#### **Applied**

Music Studio 2148 - Studio I - Instrument  
 Music Studio 2248 - Studio II - Instrument  
 Music Studio 3348 - Studio III - Instrument  
 Music Studio 3448 - Studio IV - Instrument  
 Music Studio 3548 - Studio V - Instrument  
 Music Studio 3648 - Studio VI - Instrument

**History**

Music 2080 - Western Art Music  
Music 2090 - The Eighteenth Century  
Music 3090 - The Medieval Era to the Early Baroque  
Music 3480 - The Nineteenth Century  
Music 3580 - The Twentieth and Twenty-first Centuries

**Theory****Four of:**

Music 1160 - Foundations of Music Theory  
Music 2260 - Harmony in the Common Practice  
Music 3360 - Chromatic Harmony  
Music 3460 - Harmony and Form in Jazz and Popular Music  
Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music  
Music 4660 - Form and Analysis

**Musicianship Skills**

\*Music 2161 - Musicianship Skills I  
\*Music 2261 - Musicianship Skills II  
\*Music 3361 - Musicianship Skills III  
\*Music 3461 - Musicianship Skills IV

**Conducting**

Music 3500 - Conducting I  
Music 3600 - Conducting II

**Technology**

Music 3738 - Music Education Technologies

**Ensembles**

Six Ensemble Activity courses (Each Music Ensemble Activity counts as one-half course (i.e., 1.5 credit hours))

**Elective****One of:**

Music 2500 - Introduction to Music Technology  
Music 2850 - Topics in Music  
Music 3000 - Seminar in Music (Series)  
Music 3030 - Film Music  
Music 3080 - Popular Music History (Series)  
Music 3149 - Composition I  
Music 3560 - Musicians' Health and Health Research  
Music 3606 - Orchestration  
Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music (if not chosen to meet the Theory requirement)  
Music 3721 - World Music  
Music 3734 - Portfolio and Music Industry  
Music 3850 - Topics in Music  
Music 3871 - Opera Workshop I  
Music 4080 - Music After 1945  
Music 4660 - Form and Analysis (if not chosen to meet the Theory requirement)  
Music 4721 - Canadian Music  
Music 4850 - Topics in Music  
Music Studio 4748 - Studio VII - Instrument  
Two Music Ensemble Activity courses (1.5 credit hours each)

**Notes**

\* 1.5 credit hours.

**Note:** Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

Major Focus	Music Ensemble Activity
Studio wind & percussion	Wind Orchestra
Studio voice	University Singers or Women's Chorus
Studio pianist & guitarist	Music Ensemble Activity 2450, Music Ensemble Activity 2451, and a minimum of two terms (1.5 credit hours each) of: Contemporary and Electroacoustics Ensemble Jazz Ensemble Percussion Ensemble University Singers Wind Orchestra Women's Chorus
Studio string	Orchestra (or through other approved ensemble or Independent Study by permission of the Department of Music)

Composition is not available as a Studio area in the B.Mus./B.Ed.

**c. Faculty of Education Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.F.A. - Art or Dramatic Arts/B.Ed. or Post-Diploma B.Mus./B.Ed.**

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course  
Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, school jurisdictions and schools require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

- a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

Education 4362 - Concepts of Childhood in the History of Education

Education 4380 - Developing a Philosophy of Education

Education 4381 - Ethics of Teaching

Education 4391 - Seminar in Educational Foundations (Series)

- b. One appropriate Independent Study.

<sup>3</sup> The three Education electives for Post-Diploma B.Mus./B.Ed. students must consist of:

- a. Two Education (Music) electives from the following:

Education 3871 - Elementary Music Classroom

Education 3872 - Secondary Music Classroom

Education 3875 - Brass and Percussion Methods

Education 3876 - Woodwind and String Methods

Education 3877 - Vocal and Classroom Instruments Methods

- b. One Education (Fine Arts/Music) Elective from the following:

Education 3871 - Elementary Music Classroom

Education 3872 - Secondary Music Classroom

Education 3875 - Brass and Percussion Methods

Education 3876 - Woodwind and String Methods

Education 3877 - Vocal and Classroom Instruments Methods

Education 3700 - Applied Principles of Curriculum and Instruction for Non-Majors (Series) (Art)

Education 3700 - Applied Principles of Curriculum and Instruction for Non-Majors (Series) (Drama)

3. Maintenance of a GPA of 2.50 in Education courses.

4. Completion of the appropriate Education major as defined by the program.
5. Maintenance of a program GPA of 2.50 in the appropriate Education major.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**d. Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**e. Academic Regulations**

In the Post-Diploma Combined Degrees program, students divide their time between two different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the Post-Diploma B.F.A./B.Ed. or B.Mus./B.Ed. students should be aware of the **Faculty of Education (p. 149)** regulations and **Faculty of Fine Arts (p. 167)** regulations.

**f. Education Minor Requirements**

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education, Education Minors (p. 159)** for information on Education minor requirements.

**g. Residence Requirement**

Students must complete a minimum of 35 courses (105.0 credit hours) at the University of Lethbridge, including a minimum of eight courses (24.0 credit hours) in the discipline and 20 Education courses (60.0 credit hours).

**h. Education Special Study Arrangements**

*Applied Studies*

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, the Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

*Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the Post-Diploma B.F.A. - Art or Dramatic Arts/ B.Ed. and of the Post-Diploma B.Mus./B.Ed. (see **Academic Regulations, Exceeding Course Limits, p. 56**).

*Study Tours*

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education (see Student Program Services for policies and procedures governing Study Tours).

## **14. POST-DIPLOMA BACHELOR OF MANAGEMENT/BACHELOR OF EDUCATION**

The Dhillon School of Business and the Faculty of Education jointly offer a 35-course (105.0 credit hour) Combined Degrees program leading to the degrees Bachelor of Management (B.Mgt.) and Bachelor of Education (B.Ed.) to holders of eligible diplomas in Business Administration or Management. Upon successful completion of the Combined Degrees program, the student receives the B.Mgt. degree from the Dhillon School of Business and the B.Ed. degree from the Faculty of Education.

The Combined Degrees program may be completed in 35 courses (105.0 credit hours) when the General Management major is chosen for the B.Mgt. degree. Students who choose to complete a different Management major may be required to extend their programs beyond 35 courses.

**a. Admission**

Students begin in the Pre-Post-Diploma B.Mgt./B.Ed. program in the Dhillon School of Business. After completion of one or two terms, including Education 2500, students must apply for admission to the Faculty of Education.

Students are not officially in the Post-Diploma B.Mgt./B.Ed. Combined Degrees program until they have been admitted to both the Dhillon School of Business and the Faculty of Education.

Enrolment in both the Dhillon School of Business and the Faculty of Education is limited and fulfillment of the minimum admission requirements does not guarantee admission to the Combined Degrees program.

Applicants should consult **Admission (p. 21)** for general admission requirements, policies, and deadlines.

**I. Dhillon School of Business Admission Requirements for the Pre-Post-Diploma B.Mgt./B.Ed.**

- a. Applicants may gain admission to the competitive Pre-Post-Diploma B.Mgt./B.Ed. program by completing an approved diploma in Business Administration or Management, completed not more than eight years prior to admission, with a cumulative GPA at or above the current admission cut-off and not less than 2.00 (on the University of Lethbridge 4.00 scale). Admission to the Pre-Post-Diploma B.Mgt./B.Ed program is guaranteed to applicants who have completed an approved diploma with a GPA of 3.00 or higher (on the University of Lethbridge 4.00 scale).



See [www.ulethbridge.ca/ross/post-diploma](http://www.ulethbridge.ca/ross/post-diploma) for current information on diplomas approved for admission to the Pre-Post-Diploma B.Mgt./B.Ed. program. The Dhillon School of Business will consider diplomas not previously approved for admission on a case-by-case basis.

2. Faculty of Education Admission Requirements for the Post-Diploma B.Mgt./B.Ed.

Based on the Faculty's quota system, normally a total of 216 students will be admitted to the Bachelor of Education programs (Combined Degrees and After Degree). Admission for this undergraduate teacher preparation program is available in the fall term only.

Because admission to the Faculty is competitive within each teaching major, the completion of minimum admission requirements does not guarantee admission to the program. Successful applicants are selected each year from a pool that includes both Combined Degrees and After Degree applicants.

Applicants are encouraged to consult early with Student Program Services in the Faculty of Education regarding admission requirements and program planning.

Applicants must meet the following minimum requirements for admission to the Faculty of Education:

- a. Credit in Education 2500 - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor (see **Faculty of Education, Education 2500 Prerequisite, p. 157**).
- b. A minimum admission GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on all University of Lethbridge and transferable courses completed within the terms containing the last 14 courses (42.0 credit hours). If any part of the diploma falls within the last 14 courses, the entirety of the diploma (i.e., the diploma GPA) is included in the calculation. All courses must be graded with the exception of Education 2500.
- c. A minimum major GPA of 2.50 (on the University of Lethbridge 4.00 scale), calculated on the completed diploma and all additional graded Dhillon School of Business courses and, if completed, Economics 1010, Economics 1012, and Statistics 1770.
- d. Special Case Admission  
Applicants who have a satisfactory academic record but who, for some reason, had a period of time when their performance was significantly lower may apply for Special Case admission (up to four such applicants may be admitted each year). See **Faculty of Education, Special Case Admission (p. 152)** for details.
- e. Admission Procedures Available to Students of Aboriginal Descent  
The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Faculty of Education, Admission Procedures Available to Students of Indigenous Descent (p. 153)** for details.
- f. Returning after Withdrawal or Required Withdrawal from the Faculty of Education  
Students who withdrew or who were required to withdraw from the Faculty of Education should refer to **Faculty of Education, Readmission after Withdrawal (p. 153)**.

b. **Dhillon School of Business Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.Mgt./B.Ed.**

The Dhillon School of Business offers courses in the following subject areas: Accounting (ACCT), Agricultural Enterprise Management (AGEM), Finance (FINC), Human Resources and Labour Relations (HRLR), Indigenous Governance and Business Management (IGBM), International Management (IMGT), Management (MGT), and Marketing (MKTG).

1. A minimum grade of 'C-' is required in Statistics 1770; Writing 1000 or English 1900; all Dhillon School of Business courses, including those cross-listed with Dhillon School of Business courses; and all courses in the major marked with an asterisk (\*). Students who take Economics 1010 and/or Economics 1012 as part of their degree requirements must achieve a minimum grade of 'C-'.
2. A minimum Management graduation GPA of 2.00 (on the University of Lethbridge 4.0 scale) is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 215**).
3. A minimum cumulative GPA of 2.00 (on the University of Lethbridge 4.0 scale).
4. Completion of the General Management Major comprising the following courses.

**Required courses:**

Statistics 1770 - Introduction to Probability and Statistics  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 2700 - Business Research Methods  
 Management 3031 - Managing Responsibly in a Global Environment  
 Human Resources and Labour Relations 3050 - Human Resource Management  
 International Management 3650 - Introduction to International Management  
 Management 4090 - Management Policy and Strategy

**One of:**

Management 3062 - Information Systems and Data Analytics

Accounting 3171 - Accounting Information Systems and Data Analytics  
 Management 3622 - Visual Analytics

**One of the following with Indigenous content, to meet a Liberal Education List requirement<sup>1</sup>:**

Any course from the Indigenous Governance and Business Management (IGBM) subject codes list  
 Any course from the Indigenous Studies (INDG) subject codes list  
 Aboriginal Health 1000 - Introduction to Aboriginal Health  
 Art History 3152 - Indigenous Art History (Series)  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language  
 Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation  
 Political Science 3215 - Indigenous Peoples and Local Government in Canada

**One of:**

- <sup>2</sup> Final grade of 80% or higher in AB high school English Language Arts 30-I (or equivalent 5-credit course)
- <sup>2</sup> Successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))
- Writing 1000 - Introduction to Academic Writing
- English 1900 - Introduction to Language and Literature

**Electives:**

Three Dhillon School of Business courses at the 3000 or 4000 level

**Notes**

<sup>1</sup> When choosing an 'Indigenous content' elective in this program, it is strongly recommended that students consider a course with a Fine Arts and Humanities designation assigned to it. Otherwise, an 'open' elective may need to be used to meet the Fine Arts and Humanities Liberal Education List Requirement.

<sup>2</sup> Students who meet the writing requirement through the high school grade or the challenge exam will need to substitute a Fine Arts and Humanities elective for Writing 1000 or English 1900.

Students should be aware that these are the requirements for the General Management major only. Students may choose to complete a different Management major in the Combined Degrees program. If students choose a different Management major, they may be required to extend their programs beyond 35 courses (see Dhillon School of Business, **Post-Diploma Bachelor of Management Majors, p. 225** for all Management major requirements).

5. Completion of seven courses from Lists I, II and III for the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**) as follows:

- Three courses from List I: Fine Arts and Humanities Courses (includes Writing 1000 or English 1900 and/or the required Indigenous content course with a Fine Arts and Humanities designation);
- Two courses from List II: Social Science Courses (includes Human Resources and Labour Relations 3050 from above); and,
- Two courses from List III: Science Courses (includes Statistics 1770 and Management 2070/Economics 2070 from above).

**c. Faculty of Education Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.Mgt./B.Ed.**

1. Application and admission to the Faculty of Education.
2. Completion of the equivalent of 20 Education courses including:

Education 2500

<sup>1</sup> Professional Semesters I, II, and III

<sup>2</sup> One Education Foundation course

Three Education electives

<sup>1</sup> Students entering the Faculty of Education should note that practicum placements include locations outside of Lethbridge. Students must be prepared to travel. Some locations require relocation Monday to Friday. While not an admission requirement to the Faculty of Education, school jurisdictions and schools require a criminal record check (or equivalent) from student teachers prior to practicum. The student is responsible for the cost of obtaining such documentation.

<sup>2</sup> The Education Foundation Requirement may be met in the following ways:

- a. One course from the following list:

Education 4310 - Comparative Studies of Education in Developed and Third World Nations

Education 4311 - World Issues and Problems in Education

Education 4320 - Education and Society from a Sociological Perspective

Education 4321 - Social Issues in Education

Education 4341 - Foundations of Multicultural Education in Canada

Education 4360 - Studies in the History of Western Education

Education 4361 - History of Canadian Education

*Education 4362 - Concepts of Childhood in the History of Education*

*Education 4380 - Developing a Philosophy of Education*

*Education 4381 - Ethics of Teaching*

*Education 4391 - Seminar in Educational Foundations (Series)*

b. *One appropriate Independent Study.*

3. Maintenance of a GPA of 2.50 in Education courses.
4. Completion of the Career and Technology Studies (CTS): Business Focus Education major.
5. Maintenance of a program GPA of 2.50 in the appropriate Education major.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 81**).

**d. Sample Sequencing Plan**

Sample sequencing plans are created to provide students with an example of how to plan courses for the duration of a program. Sample sequencing plans for each program and major can be found in the applicable Program Planning Guide, see [www.ulethbridge.ca/ross/ppgs](http://www.ulethbridge.ca/ross/ppgs).

**e. Academic Regulations**

In the Post-Diploma Combined Degrees program, students divide their time between two different Faculties or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty or School in which a portion of the Combined Degrees will be taken. For the Post-Diploma B.Mgt./B.Ed. students should be aware of the **Faculty of Education (p. 149)** regulations and **Dhillon School of Business (p. 207)** regulations.

**f. Education Minor Requirements**

Students may elect to complete a minor in addition to a major. The minor must be a school subject and include five non-Education courses and an appropriate Education Methods course, usually selected from the Education 3700 Series. Students are eligible to receive an endorsement on their official academic transcripts upon completion of a minor. Please refer to **Faculty of Education, Education Minors (p. 159)** for information on Education minor requirements.

**g. Education Specialization Requirements**

Students may elect to complete a specialization in addition to a major or minor. Students will be eligible to receive an endorsement on their official academic transcript upon completion of a specialization. Please refer to **Faculty of Education, Education Specializations (p. 165)** for information on Education Specialization Requirements.

**h. Residence Requirement**

Students must complete a minimum of 30 courses at the University of Lethbridge, including a minimum of eight Dhillon School of Business courses and 15 Education courses (three Professional Semesters).

**i. Education Special Study Arrangements**

*Applied Studies*

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2510 and Education 4980. The Applied Studies program for the Faculty of Education is coordinated through the Coordinator of Applied Studies, the Faculty of Arts and Science, in consultation with the Associate Dean, Undergraduate Programs, Faculty of Education.

*Independent Study*

A maximum of two Independent Studies may be completed in the B.Ed. portion of the Post-Diploma B.Mgt./B.Ed.

*Study Tours*

Credit may be received for a maximum of two Study Tour courses (Education 4920). The Study Tours must be approved in advance by the Assistant Dean, Student Program Services, Faculty of Education (see Student Program Services for policies and procedures governing Study Tours).

# MINORS

<b>1. GENERAL PHILOSOPHY.....</b>	<b>324</b>	<b>x. Indigenous Studies.....</b>	<b>330</b>
<b>2. ADVISING AND INFORMATION.....</b>	<b>324</b>	<b>y. Information and Communications.....</b>	<b>331</b>
<b>3. GENERAL POLICIES.....</b>	<b>324</b>	<b>z. Innovation Across Disciplines.....</b>	<b>331</b>
<b>4. MINORS OPTIONS.....</b>	<b>324</b>	<b>aa. International Management.....</b>	<b>331</b>
a. Aboriginal Health.....	324	<b>ab. Japanese.....</b>	<b>332</b>
b. Accounting.....	325	<b>ac. Liberal Education.....</b>	<b>332</b>
c. Agricultural Economics.....	325	<b>ad. Linguistics.....</b>	<b>332</b>
d. Agricultural Enterprise Management.....	325	<b>ae. Marketing.....</b>	<b>333</b>
e. Anthropology.....	325	<b>af. Mathematics.....</b>	<b>333</b>
f. Art History.....	326	<b>ag. Mental Health.....</b>	<b>333</b>
g. Art History and Museum Studies.....	326	<b>ah. Museum Studies.....</b>	<b>333</b>
h. Art Studio.....	326	<b>ai. Music in Popular Culture.....</b>	<b>334</b>
i. Asian Studies.....	326	<b>aj. Neuroscience.....</b>	<b>334</b>
j. Cinema.....	327	<b>ak. New Media.....</b>	<b>334</b>
k. Computer Science.....	327	<b>al. New Media Studies.....</b>	<b>334</b>
l. Economics.....	327	<b>am. Philosophy.....</b>	<b>334</b>
m. English.....	327	<b>an. Philosophy of Law.....</b>	<b>335</b>
n. Environmental Studies.....	328	<b>ao. Physical Geography.....</b>	<b>335</b>
o. Family and Small Business Management...	328	<b>ap. Physics.....</b>	<b>335</b>
p. FinTech and Financial Innovation.....	328	<b>aq. Political Science.....</b>	<b>336</b>
q. French.....	328	<b>ar. Population Health.....</b>	<b>336</b>
r. General Music Studies.....	328	<b>as. Religious Studies.....</b>	<b>336</b>
s. Health Leadership.....	329	<b>at. Sociology.....</b>	<b>336</b>
t. History.....	329	<b>au. Spanish.....</b>	<b>336</b>
u. Human Geography.....	329	<b>av. Supply Chain and Operations Management..</b>	<b>337</b>
v. Indigenous Business Management.....	329	<b>aw. Theatre Practice.....</b>	<b>337</b>
w. Indigenous Governance.....	330	<b>ax. Theatre Studies.....</b>	<b>337</b>
		<b>ay. Women and Gender Studies.....</b>	<b>337</b>

## I. GENERAL PHILOSOPHY

In keeping with the principles of liberal education, the University of Lethbridge offers minors in a variety of areas. Minors are available across Faculties and Schools and provide students in undergraduate programs the opportunity to pursue their interests in an area or areas distinct from their chosen major and degree program.

A minor is a defined set of six courses, designed to provide depth in a particular discipline, study in an interdisciplinary area, or focus on a theme-related topic.

Students may wish to consider declaring a minor for a variety of reasons: to enhance depth of knowledge in a diverse area, to gain exposure to a range of perspectives, to build a foundation for an intended career, to pursue multiple passions, or to broaden talents.

Students may declare a maximum of two minors in a single program. For students who successfully complete the specified requirements, the minor(s) will be acknowledged on the official academic transcript.

## 2. ADVISING AND INFORMATION

Academic advising units throughout the University of Lethbridge provide program advising and academic planning with consideration of the educational goals of the student, allowing each student to meet his or her personal, professional, and academic goals.

Students should consult with their program academic advisors to ensure ability to take courses in a minor. All available minors are listed below and any major exception will be indicated within each minor's information section.

## 3. GENERAL POLICIES

- a. Minors are accessible to any student in an undergraduate program except combined degrees with Education, Education After Degree programs, or where the minor is directly related to the student's major. Second degree students may not complete a minor that is directly related to the major or any minor taken in their first degree program. For minors available to undergraduate students in Education programs, please see **Faculty of Education, Education Minors (p. 159)**.
- b. Completing a minor may extend program duration (see **Academic Regulations, Residence Requirements and Time Limits, p. 58**). Students choosing to complete a minor may be required to complete more than the minimum number of courses required for the degree depending on the program and choice of major(s). Courses within a minor may have prerequisites and/or corequisites that may be an elective within the minor or that may require taking additional courses.
- c. A minor is comprised of a minimum of six courses (18.0 credit hours), including at least one course (3.0 credit hours) at the 3000/4000 level.
- d. Residence requirement: three courses (9.0 credit hours), must be completed at the University of Lethbridge, including at least one senior level course at the 3000/4000 level.
- e. Courses required for the minor may not be double-counted in fulfilling requirements for a degree program's core, major or another minor. The six courses comprising the minor must be distinct from any specified core, major or other minor requirements.
- f. After admission to an undergraduate program, a maximum of two minors may be declared no later than the *Application for Graduation* (see **Academic Schedule, p. 15**).
- g. Course availability is not guaranteed.
- h. Given that minors are optional, course substitutions that are not already stipulated in the minor itself are not permitted.

## 4. MINORS OPTIONS

### a. Aboriginal Health

Not available to Aboriginal Health majors.

#### Required Courses:

Aboriginal Health 1000 - Introduction to Aboriginal Health

Aboriginal Health 2000 - Indigenous Healing and Restoration

Aboriginal Health 3300 - Traditional Aboriginal Health Concepts

#### Three of:

Aboriginal Health 3310 - Contemporary Issues in Aboriginal Health

Addictions Counselling 3130 - Diversity and Counselling

Health Sciences 2310 - Human Nutrition

Health Sciences 2600/Women and Gender Studies 2100 - Women and Health

Health Sciences 2700/Sociology 2700 - Health and Society

Health Sciences 3510 - Program Planning and Evaluation

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts

Indigenous Studies 3700 - Indigenous Health

Public Health 1000 - Introduction to Public Health

Public Health 2000 - Population Health

Public Health 3000 - Canadian and Global Perspectives

**b. Accounting**

Not available to Accounting majors.

**Required Courses:**

Accounting 2100 - Introductory Accounting  
 Accounting 2400 - Management Accounting  
 Accounting 3100 - Intermediate Financial Accounting I  
 Finance 3040 - Finance  
 Statistics 1770 - Introduction to Probability and Statistics

**One of:**

Accounting 3130 - Cost Accounting  
 Accounting 3151 - Introduction to Tax

**Note:** Any course required by a student's program must be substituted by an additional elective from the list below:

Accounting 3101 - Intermediate Financial Accounting II  
 Accounting 3130 - Cost Accounting  
 Accounting 3131 - Management Control Systems  
 Accounting 3151 - Introduction to Tax  
 Accounting 3160 - Auditing  
 Accounting 3171 - Accounting Information Systems and Data Analytics  
 Accounting 3180 - Analyzing Cases in Accounting  
 Accounting 4110 - Advanced Financial Accounting  
 Accounting 4130 - Advanced Management Accounting  
 Accounting 4151 - Advanced Tax  
 Accounting 4160 - Accounting Theory

**c. Agricultural Economics**

Not available to Agricultural Studies majors.

**Required Courses:**

Agricultural Studies 1000 - The Evolution of Agriculture  
 Agricultural Studies 4000 - Seminar in Agricultural Issues

**Four of:**

Economics 1010 - Introduction to Microeconomics  
 Economics 2150 - Economics of Agricultural Issues  
 Economics 2350 - Economics of Agricultural Markets I  
 Economics 3300 - Agricultural Policy I  
 Economics 3350 - Economics of Agricultural Markets II  
 Economics 4300 - Agricultural Policy II

**d. Agricultural Enterprise Management**

Not available to Agricultural Enterprise Management majors.

**Required Courses:**

Agricultural Enterprise Management 2600 - Business of Agriculture  
 Agricultural Enterprise Management 3275 - Agricultural Marketing and Sales  
 Agricultural Enterprise Management 3475/Finance 3475 - Agricultural Finance and Markets  
 Management 3070 - Supply Chain Management and Sustainability

**Two of:**

Agricultural Enterprise Management 3625 - Canadian and World Agriculture  
 Agricultural Enterprise Management 4125/Accounting 4125 - Accounting and Agricultural Enterprises  
 Agricultural Enterprise Management 4625 - Issues in Agricultural Business  
 Management 3031 - Managing Responsibly in a Global Environment  
 Management 3612 - Innovation and Entrepreneurship  
 Management 3622 - Visual Analytics  
 Marketing 3806 - Small Business Management

**e. Anthropology**

Not available to Anthropology majors, or if Anthropology is chosen as one of the disciplinary streams in the General Major in the Social Sciences.

**Required Courses:**

Six courses (18.0 credit hours) in Anthropology, including at least one course (3.0 credit hours) in Anthropology at the 3000/4000 level.

No more than one Independent Study (Anthropology 1990, 2990, 3990, 4990) or Applied Studies (Anthropology 2980, 3980, 4980) course may be counted towards the minor.

**f. Art History**

Not available to Art, Art History/Museum Studies, or Art Studio majors. Not available to students completing the Art History and Museum Studies or the Museum Studies minor.

**Required Courses:**

Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400  
 Art History 3001 - Theory and Methods in Art and Art History  
 Three additional Art History courses

**g. Art History and Museum Studies**

Not available to Art, Art History/Museum Studies, or Art Studio majors. Not available to students completing the Art History or the Museum Studies minor.

**Required Courses:**

Art History 1001 - World Art Before 1400  
 Art History 1002 - World Art Since 1400  
 Museum Studies 2900 - Introduction to Museum Studies  
 Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display  
 Two additional courses in Art History and/or Museum Studies

**h. Art Studio**

Not available to Art, Art History/Museum Studies or Art Studio majors.

**Required Courses:**

Art 2010 - Drawing Studio I

**One of:**

Art 2060 - Media Arts (Digital Sketchbook)  
 Art 2061 - Media Arts (Video Sketchbook)

**One of:**

Art History 1002 - World Art Since 1400  
 Art 3261 - Art NOW  
 Art 3262 - Art NOW

Three additional Art Studio courses, including a minimum of one at the 3000/4000 level if Art 3261 or Art 3262 is not chosen above

**i. Asian Studies****Required Courses:**

Six courses (18.0 credit hours) in Asian Studies and related subjects, including at least one course (3.0 credit hours) at the 3000/4000 level, as follows:

Asian Studies 1000 - Introduction to Asia

**Five of:**

Any additional courses in Asian Studies  
 Geography 3605 - The Changing Geography of China  
 History 2290 - Main Themes in East Asian History  
 History 4040 - Seminars in East Asian History (Series)  
 Interdisciplinary Studies 2008 - Japanese Culture  
 Interdisciplinary Studies 2600 - Study Tour of Japan  
 Japanese 1000 - Beginners' Japanese I  
 Japanese 1100 - Beginners' Japanese II  
 Japanese 2010 - Intermediate Language I  
 Japanese 2020 - Intermediate Language II  
 Japanese 3001 - Advanced Language  
 Religious Studies 2100 - The Hindu Tradition  
 Religious Studies 2200 - The Buddhist Tradition  
 Religious Studies 2330 - Chinese Religions  
 Religious Studies 2360 - Japanese Religions  
 Religious Studies 3100 - Studies in Indian Religion (Series)  
 Religious Studies 3300 - Studies in East Asian Religions (Series)  
 Religious Studies 4110 - Seminars in Eastern Religions (Series)

Alternative courses may be counted toward the minor provided (1) they are clearly related to Asian Studies and (2) they are approved by the Dean of Arts and Science.

No more than one Independent Study (Asian Studies 1990, 2990, 3990, 4990) or Applied Studies (Asian Studies 2980, 3980, 4980) course may be counted toward the minor.

No more than three courses from any one related discipline may be counted among the six courses required for the Asian Studies minor. There is no limit to the number of Asian Studies courses that may be counted toward the minor, however.

**j. Cinema**

Not available to New Media majors.

**Required Courses:**

Cinema 1000 - Introduction to Cinema Studies

**Five of:**

Art 206I - Media Arts (Video Sketchbook)  
 Cinema 3000 - Contemporary American Cinema  
 Cinema 300I - Film Authorship  
 Cinema 3010 - Cinematography and Lighting  
 Cinema 3110/New Media 3110 - Postproduction and Visual Effects  
 Cinema 320I - Documentary Film Studies  
 Cinema 3202 - Film Noir and Crime Cinema  
 Cinema 3203 - Film Comedy  
 Cinema 3550/New Media 3550 - History of Animation  
 Cinema 4010 - Narrative Production Techniques  
 Cinema 4420/New Media 4420 - Screenwriting  
 Cinema 4820/New Media 4820 - Writing for Comedy  
 Drama 4312 - Acting for the Camera  
 Music 3030 - Film Music  
 Music 4636 - Music Design for Film and Digital Media  
 New Media 2030 - Digital Video Production  
 New Media 3420 - Narrative for New Media  
 New Media 3810 - Expanded Cinema

**k. Computer Science**

Not available to Computer Science or Computer Science and Geographical Information Science majors, or if Computer Science is chosen as one of the disciplinary streams in the General Major in the Sciences.

**Required Courses:**

Six courses (18.0 credit hours) in Computer Science, including at least two Computer Science courses (6.0 credit hours) at the 3000/4000 level.

Students may not include Computer Science 1000 (Introduction to Computer Science) among the six courses required for the minor. No more than one Independent Study (Computer Science 1990, 2990, 3990, 4990) or Applied Studies (Computer Science 2980, 3980, 4980) course may be counted towards the minor.

**l. Economics**

Not available to Economics, Applied Statistics (if Economics is chosen as the required concentration), or Agricultural Studies (if the Agricultural Economics subfield is chosen as the primary subfield) majors, or if Economics is chosen as one of the disciplinary streams in the General Major in the Social Sciences.

**Required courses:**

Economics 1010 - Introduction to Microeconomics  
 Economics 1012 - Introduction to Macroeconomics  
 One course (3.0 credit hours) in Economics at the 3000/4000 level  
 Three additional courses (9.0 credit hours) in Economics

No more than one Independent Study (Economics 1990, 2990, 3990, 4990) or Applied Studies (Economics 2980, 3980, 4980) course may be counted towards the minor.

Students who have completed Economics 1010 and/or Economics 1012 as part of their major may complete alternate Economics electives for the minor.

**m. English**

Not available to English majors, or if English is chosen as one of the disciplinary streams in the General Major in the Humanities.

**Required courses:**

Six courses (18.0 credit hours) in English, including at least two courses (6.0 credit hours) in English at the 3000/4000 level.  
 No more than one Independent Study (English 1990, 2990, 3990, 4990) course may be counted towards the minor.  
 Applied Studies courses (English 2980, 3980, 4980) may not be counted towards the minor in English.



**n. Environmental Studies****Required Courses:****Six of:**

Anthropology 1000 - The Anthropological Perspective  
 Anthropology 2710 - Introduction to Environmental Anthropology  
 Economics 1010 - Introduction to Microeconomics  
 Economics 3220 - Environmental Economics  
 Environmental Science 2000 - Fundamentals of Environmental Science  
 Geography 1200 - Introduction to Human Geography  
 Geography 3075 - Environmental Resources Management  
 Philosophy 2236 - Environmental Philosophy

Of the six courses chosen for the minor, at least one course (3.0 credit hours) must be at the 3000 level.

**o. Family and Small Business Management****Required Courses:**

Finance 3406 - Entrepreneurial Finance  
 Management 3801 - New Venture Start-Ups  
 Management 3816 - Venture Growth  
 Management 4806 - Venture Diagnostics  
 Marketing 3806 - Small Business Management

**One of:**

Management 3031 - Managing Responsibly in a Global Environment  
 Management 3612 - Innovation and Entrepreneurship  
 Management 3710 - Managing Not-for-Profit Organizations  
 Management 3826 - Building Sustainable Family Enterprises

**Note:** Any course required by a student's program must be substituted by an additional elective from the list above.

**p. FinTech and Financial Innovation****Required Courses:**

Finance 3600 - Machine Learning in Business and Finance  
 Finance 3620 - Blockchain Applications in Business  
 Finance 3490 - FinTech  
 Management 3612 - Innovation and Entrepreneurship

**Two of:**

Finance 3406 - Entrepreneurial Finance  
 Finance 3480 - Personal Finance  
 Management 2070/Economics 2070 - Operations and Quantitative Management  
 Management 3062 - Information Systems and Data Analytics  
 Management 3070 - Supply Chain Management and Sustainability  
 Management 3075 - Operations Modelling with Spreadsheets  
 Management 3622 - Visual Analytics  
 Management 3801 - New Venture Start-Ups  
 Management 3920 - Project Management  
 Management 4074 - Supply Chain Technology and Blockchain  
 Management 4806 - Venture Diagnostics  
 Marketing 3806 - Small Business Management  
 Marketing 3862 - Digital Marketing  
 Economics 2140 - Introduction to Financial Economics

**Note:** Any course required by a student's program must be substituted by an additional elective from the list above.

**q. French**

Not available to French or French/Spanish majors, or if French is chosen as one of the disciplinary streams in the General Major in the Humanities.

**Required courses:**

French 2300 - Introduction to Modern Literature and Literary Analysis  
 Five additional courses (15.0 credit hours) in French, including at least one French course (3.0 credit hours) at the 3000/4000 level.  
 Students may **not** count French 1000 (Beginners' French I) among the six courses required for the minor. No more than one Independent Study (French 1990, 2990, 3990, 4990) or Applied Studies (French 2980, 3980, 4980) course may be counted towards the minor.

**r. General Music Studies**

Not available to Digital Audio Arts or Music majors. Not available to students completing the Music in Popular Culture minor.

**Required courses:**

Six courses (18.0 credit hours) in Music (including Music Ensemble Activity courses) including at least one course (3.0 credit hours) at the 3000/4000 level.

**Note:** A maximum of four Music Ensemble Activity courses may be counted toward the minor but not toward the 3000/4000-level requirement.

**s. Health Leadership****Six of:**

Health Sciences 2700/Sociology 2700 - Health and Society  
 Health Sciences 3002 - Health Promotion  
 Health Sciences 3100 - Managing in Health Care  
 Health Sciences 3510 - Program Planning and Evaluation  
 Health Sciences 3800 - Teaching and Learning for Health Professions  
 Health Sciences 3825/Management 3825 - Information in Health Care  
 Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour  
 Human Resources and Labour Relations 3050 - Human Resource Management  
 Human Resources and Labour Relations 3315 - Diversity in Employment  
 Human Resources and Labour Relations 4370 - Leadership in Organizations  
 Management 2081 - Professional Communications Skills

**t. History**

Not available to History majors, or if History is chosen as one of the disciplinary streams in the General Major in the Humanities or the General Major in the Social Sciences.

**Required courses:**

Six courses (18.0 credit hours) in History, including at least one History course (3.0 credit hours) at the 3000/4000 level.

No more than one Independent Study (History 1990, 2990, 3990, 4990) or Applied Studies (History 2980, 3980, 4980) course may be counted towards the minor.

**u. Human Geography**

Not available to Geography, Archaeology and Geography, Computer Science and Geographical Information Science, or Applied Statistics (if Geography is chosen as the concentration) majors, or if Geography is chosen as one of the disciplinary streams in the General Major in the Social Sciences.

**Required courses:**

Geography 1200 - Introduction to Human Geography

**Two of:**

Geography 2210 - Spatial Organization of Economic Activity  
 Geography 2535 - Introduction to Planning  
 Geography 2600 - Canada

**One of:**

Geography 2700 - Geographical Data and Analysis  
 Geography 2735 - Introduction to Geographical Information Science

Two courses (6.0 credit hours) in Geography at the 3000/4000 level, with a social science designation.

**v. Indigenous Business Management**

Not available to Indigenous Governance and Business Management majors.

**Required Courses:**

Indigenous Governance and Business Management 2500 - Introduction to Indigenous Governance and Business Management  
 Indigenous Governance and Business Management 3250/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities

Indigenous Governance and Business Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

Indigenous Governance and Business Management 3515/Indigenous Studies 3515 - Canadian Indigenous Negotiations

Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management

**One of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources  
 Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)

Indigenous Governance and Business Management 4501/Indigenous Studies 4501 - Canadian Indigenous Tax Issues  
 Management 3070 - Supply Chain Management and Sustainability

Marketing 3225 - Brand Management

Marketing 3230 - Retailing Management

Marketing 3862 - Digital Marketing

Any offering in Indigenous Governance and Business Management 3850 or Indigenous Governance and Business Management 4850 with an emphasis on Indigenous Business Management

**Note:** Any course required by a student's program must be substituted by an additional elective from the list above.

**w. Indigenous Governance**

Not available to Indigenous Governance and Business Management majors.

**Required Courses:**

Indigenous Governance and Business Management 2500 - Introduction to Indigenous Governance and Business Management  
 Indigenous Governance and Business Management 3515/Indigenous Studies 3515 - Canadian Indigenous Negotiations  
 Indigenous Governance and Business Management 3522/Indigenous Studies 3522 - Canadian Indigenous Project Management  
 Indigenous Governance and Business Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance

Indigenous Governance and Business Management 4570/Indigenous Studies 4570 - Indigenous Leadership and Management

**One of:**

Indigenous Governance and Business Management 3280/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources  
 Indigenous Governance and Business Management 3592/Indigenous Studies 3592 - Applied Indigenous Management Issues (Series)

Indigenous Governance and Business Management 4120/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

Indigenous Governance and Business Management 4150/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments

<sup>1</sup> Political Science 3215 - Indigenous Peoples and Local Government in Canada

Any offering in Indigenous Governance and Business Management 3850, Indigenous Governance and Business Management 4850, Indigenous Studies 3850 or Indigenous Studies 4850 with an emphasis on Indigenous Governance

**Notes**

<sup>1</sup> Students should be aware that these courses have prerequisites which may require taking courses extra to their program requirements. Students are strongly advised to discuss their program with an academic advisor.

**Note:** Any course required by a student's program must be substituted by an additional elective from the list above.

**x. Indigenous Studies**

Not available to Indigenous Studies majors, or if Indigenous Studies is chosen as one of the disciplinary streams in the General Major in the Humanities or the General Major in the Social Sciences.

**Required courses:****One of:**

Indigenous Studies 1000 - Introduction to Indigenous Studies I: Canadian Contexts  
 Indigenous Studies 1010 - Introduction to Indigenous Studies II: Global Perspectives

**One of (Language and Linguistics):**

Indigenous Studies 1100/Linguistics 1100 - Language and Culture in Indigenous America  
 Indigenous Studies 2750/Linguistics 2750 - Endangered Languages  
 Blackfoot 1000 - Introductory Spoken Blackfoot  
 Blackfoot 2000 - Spoken Blackfoot II  
 Blackfoot 2210 - Structure of the Blackfoot Language  
 Cree 1000 - Introductory Spoken Cree  
 Cree 2210 - Structure of the Plains Cree Language

**One of (Art, Literature, Culture, and History):**

Indigenous Studies 2000 - Native American Philosophy  
 Indigenous Studies 2300 - North American Indigenous Art History and Theory  
 Indigenous Studies 2350/Art 2350 - Indigenous Art Studio I  
 Indigenous Studies 2500 - Indigenous Histories of Canada  
 Indigenous Studies 2550 - Indigenous Histories of the United States  
 Indigenous Studies 2605/English 2605 - Introduction to Indigenous Literature

**One of (Law, Politics and Contemporary Themes):**

Indigenous Studies 2100 - Indigenous Peoples and Law  
 Indigenous Studies 2400 - Comparative Traditional Indigenous Economies  
 Indigenous Studies 2700 - Indigenous Women  
 Indigenous Studies 3700 - Indigenous Health

Two additional courses (6.0 credit hours) in Indigenous Studies

At least two of the above courses (6.0 credit hours) must be at the 3000/4000 level.

No more than one Independent Study (Indigenous Studies 3990, 4990) or Applied Studies (Indigenous Studies 3980, 4980) course may be counted towards the minor in Indigenous Studies.

Students who have completed Indigenous Studies 1000 as required for their major may complete an alternate Indigenous Studies course for their minor.

**y. Information and Communications****Required courses:**

Liberal Education 1000 - Knowledge and Liberal Education  
 Liberal Education 3000/Writing 3000 - Writing in the Modern Research University  
 Library Science 2000 - Library Research and Information Systems  
 Writing 1000 - Introduction to Academic Writing

**Two of:**

Anthropology 2510 - Language, Culture, and Communication  
 English 2800 - Rhetoric  
 Management 2081 - Professional Communications Skills  
 Any Language or Linguistics course  
 Any Library Science course at the 3000 or 4000 level

Alternative courses may be counted toward the minor provided (1) they are clearly related to the themes of information literacy, rhetoric, language and culture, or communications and (2) they are approved by the Library Curriculum Committee. Please contact Library Administration.

Students who have completed Writing 1000 as part of their major must complete an additional course from the 'two of' list.

No more than one Independent Study (1990, 2990, 3990, 4990) or Applied Studies (2980, 3980, 4980) course may be counted towards the minor.

**z. Innovation Across Disciplines****Required courses:**

Liberal Education 1000 - Knowledge and Liberal Education

**Two courses from the following list:**

Liberal Education 2200 - Problems and Puzzles  
 Liberal Education 3300 - Creativity and Innovation  
 Liberal Education 3350 - Themes in Innovation

Three additional courses from any Faculty or School (including the third course from the list above) which must be clearly related to the themes of Creativity and Innovation, and approved by the Dean of the School of Liberal Education.

No more than one Independent Study (1990, 2990, 3990, 4990) or Applied Studies (2980, 3980, 4980) course may be counted toward the minor.

**aa. International Management**

Not available to International Management majors.

**Required Courses:**

International Management 3640 - Cross-Cultural Management Practices  
 International Management 3650 - Introduction to International Management

**International Exchange Term (3-4 courses on exchange):**

Participation in an international exchange term is required. Students complete two required courses (6.0 credit hours) at the University of Lethbridge and then complete the equivalent of three or four courses (9.0 or 12.0 credit hours) while on exchange at a partner institution. Students have the option to take two summer exchanges in two different countries, or one summer exchange and International Management 4640 - Cross-Cultural Work Study (Series) if they cannot participate in a full-term exchange. Where possible, courses completed while on exchange will have international content; where international content is not possible, courses should reflect the unique cultural aspects of the host country or region. If only three courses are completed during the exchange term, students will complete one additional elective at the University of Lethbridge to complete the minor.

- At least two courses must be Management courses
- One language or culture course

**One of (if only three courses are completed while on exchange):**

Agricultural Enterprise Management 3635 - International Trade  
 Economics 4590 - Economics of Globalization  
 Finance 3460 - Global Financial Management  
 International Management 3170/Political Science 3170 - The Politics of Canadian Trade Policy  
 International Management 3225/Geography 3225 - Industrial Location and Globalization of Enterprise  
 International Management 3606 - Business in Emerging Markets  
 International Management 3665 - Leading in the Globalized Environment  
 International Management 3685 - Issues in International Management (Series)  
 International Management 3815 - Regional Aspects of International Management (Series)  
 International Management 3860 - Law and Institutions of International Trade  
 International Management 4640 - Cross-Cultural Work Study (Series)  
 International Management 4650 - Integrated Trade and Supply Chain Management  
 Management 4580 - Environmental Management  
 Political Science 2110 - International Relations

**Note:** Any course required by a student's program must be substituted by an additional elective from the list above.

**ab. Japanese**

Not available if Japanese is chosen as one of the disciplinary streams in the General Major in the Humanities.

**Required courses:**

Six courses (18.0 credit hours) in Japanese and related subjects as follows:

A minimum of four Japanese courses (12.0 credit hours) for which the language of instruction is Japanese, including a minimum of one Japanese course (3.0 credit hours) at the 3000/4000 level.

Up to two courses from the following list, for which the language of instruction is English, may be counted among the six courses required for the minor in Japanese:

Interdisciplinary Studies 2008 - Japanese Culture  
Interdisciplinary Studies 2600 - Study Tour of Japan  
Japanese Studies 3400/Asian Studies 3400 - Japanese Society and Culture  
Religious Studies 2360 - Japanese Religions

No more than one Independent Study (Japanese 1990, 2990, 3990, 4990) or Applied Studies (Japanese 2980, 3980, 4980) course may be counted towards the minor.

**Note:** Offerings in Modern Languages 2850, Modern Languages 3850, or Modern Languages 4850 with a focus on Japanese language or culture may be included, with permission of the Department of Modern Languages.

**ac. Liberal Education****Required courses:**

Six courses (18.0 credit hours) in Liberal Education and/or Interdisciplinary Studies, including at least one Liberal Education or Interdisciplinary Studies course (3.0 credit hours) at the 3000/4000 level.

No more than one Independent Study (Liberal Education or Interdisciplinary Studies 1990, 2990, 3990, 4990) or Applied Studies (Liberal Education or Interdisciplinary Studies 2980, 3980, 4980) course may be counted towards the minor.

**ad. Linguistics**

Not available if Linguistics is chosen as one of the disciplinary streams in the General Major in the Humanities.

**Required courses:**

Six courses (18.0 credit hours) in Linguistics, including at least two Linguistics courses (6.0 credit hours) at the 3000/4000 level.

Two of the following courses may be counted toward the six courses required for the Linguistics minor:

Anthropology 2510 - Language, Culture, and Communication  
Blackfoot 2210 - Structure of the Blackfoot Language  
Blackfoot 3210 - Blackfoot Morphology and Syntax  
Cree 2210 - Structure of the Plains Cree Language  
English 2810 - Grammar  
English 3450 - Old English  
English 3901 - History of the English Language  
French 3450 - Phonetics and Diction  
French 4001 - Advanced Language II  
Hebrew 1100 - Elementary Hebrew II  
Japanese 3001 - Advanced Language  
Latin 1100 - Elementary Latin II  
Philosophy 3280 - Philosophy of Language  
Psychology 4210 - Speech Development  
Spanish 3001 - Advanced Language

An alternative course may be counted within the requirements of the Linguistics minor provided (1) the course is clearly related to Linguistics and (2) the course is pre-approved by the Chair of the Department of Modern Languages and Linguistics.

**ae. Marketing**

Not available to Marketing majors.

**Required Courses:**

Marketing 2020 - Marketing

Marketing 3210 - Consumer Behaviour

Marketing 3215 - Introduction to Marketing Communications and Social Media

**Three of:**

Marketing 3205 - Sports Marketing

Marketing 3225 - Brand Management

Marketing 3230 - Retailing Management

Marketing 3240 - Business-to-Business Relationship Sales

Marketing 3250 - Social Marketing

Marketing 3260 - Not-for-Profit Marketing

Marketing 3280 - Services Marketing Management

Marketing 3290 - Marketing and Society

Marketing 3806 - Small Business Management

Marketing 3862 - Digital Marketing

Marketing 4215 - Advanced Marketing Communications and Social Media

Marketing 4220 - Cross-Cultural Marketing

**Note:** Any course required by a student's program must be substituted by an additional elective from the list above.

**af. Mathematics**

Not available to Mathematics majors, or if Mathematics is chosen as one of the disciplinary streams in the General Major in the Sciences.

**Required courses:**

Four courses (12.0 credit hours) in Mathematics or Statistics

Two courses (6.0 credit hours) in Mathematics or Statistics at the 3000/4000 level

Students may not include Mathematics 0500 or 0520 (Essential Mathematics), Mathematics 2090 (Number Systems), Independent Study courses (Mathematics or Statistics 1990, 2990, 3990, 4990) or Applied Studies courses (Mathematics or Statistics 2980, 3980, 4980) among the six courses required for the minor.

**ag. Mental Health****Six of:**

Health Sciences 1010 - Personal Health and Wellness

Health Sciences 1170 - Human Development Across the Lifespan

Health Sciences 2600/Women and Gender Studies 2100 - Women and Health

Health Sciences 3002 - Health Promotion

Health Sciences 3127 - Loss, Grief and Bereavement

Health Sciences 3150 - Abnormal Psychology

Health Sciences 3570/Psychology 3570 - Contemporary Issues in Mental Health

Health Sciences 3860 - Men's Health

Public Health 3000 - Canadian and Global Perspectives

Public Health 3420 - Public Health Ethics

**ah. Museum Studies**

Not available to Art, Art History/Museum Studies, or Art Studio majors. Not available to students completing the Art History or Art History and Museum Studies minor.

**Required courses:**

Art History 1001 - World Art Before 1400

Art History 1002 - World Art Since 1400

Museum Studies 2900 - Introduction to Museum Studies

Museum Studies 3900 - Exhibiting Cultures: Art Galleries, Museums and Cultures of Display

Museum Studies 4000 - Museum Studies Internship

**One of:**

Art History elective

Museum Studies elective

Management 3710 - Managing Not-for-Profit Organizations

**ai. Music in Popular Culture**

Not available to Digital Audio Arts or Music majors. Not available to students completing the General Music minor.

**Required Courses:**

Music 1011 - Materials of Music

Music 2500 - Introduction to Music Technology

**One of:**

Music 3200 - Popular Music (Series) (History of Rock and Roll to 1970)

Music 3200 - Popular Music (Series) (History of Rock and Roll Since 1970)

**Three of:**

Music 2850 - Topics in Music (with approval of the Department of Music)

Music 3030 - Film Music

Music 3200 - Popular Music (Series) (Any offerings not chosen above)

Music 3721 - World Music

**Note:** Students may complete more than two offerings of Music 3200 to meet the requirements of the Music in Popular Culture minor.

**aj. Neuroscience**

Not available to Neuroscience majors, or if Neuroscience is chosen as one of the disciplinary streams in the General Major in the Sciences.

**Required courses:**

Neuroscience 2610 - Principles of Brain Structure and Function

Neuroscience 2620 - Principles of Behavioural Neuroscience

Two courses (6.0 credit hours) in Neuroscience at the 3000 level, not including Neuroscience 3990 (Independent Study)

One course (3.0 credit hours) in Neuroscience at the 4000 level

One additional course (3.0 credit hours) in Neuroscience

Students interested in the minor in Neuroscience who have completed Neuroscience 2610 and/or Neuroscience 2620 as part of their major must complete alternate Neuroscience electives for the minor.

**ak. New Media**

Not available to New Media majors.

**Required courses:**

Six courses in New Media including at least two at the 3000/4000 level.

**al. New Media Studies**

Not available to New Media majors.

**Required courses:**

New Media 1000 - Introduction to New Media

New Media 2150 - Memes, Influencers, and Digital Convergence

New Media 3150 - Seminar in New Media Studies

**Three of:**

New Media 2900 - Social Media and Digital Identity

New Media 3250 - Media, Advertising, and Consumer Culture

New Media 3300 - Theory and Aesthetics of Digital Games

New Media 3550/Cinema 3550 - History of Animation

New Media 3560 - Popular Narrative

New Media 3650 - Modern Media, War and Propaganda

**am. Philosophy**

Not available to Philosophy majors, or if Philosophy is chosen as one of the disciplinary streams in the General Major in the Humanities.

**Required courses:**

Six courses (18.0 credit hours) in Philosophy and/or Logic, including at least one Philosophy or Logic course (3.0 credit hours) at the 3000/4000 level.

No more than one Independent Study (Philosophy or Logic 1990, 2990, 3990, 4990) or Applied Studies (Philosophy or Logic 2980, 3980, 4980) course may be counted towards the minor.

**an. Philosophy of Law****Required courses:**

Philosophy 2001 - Introduction to Ethics

Philosophy 3404 - Philosophy of Law

Philosophy 4404 - Advanced Philosophy of Law

**Two of:**

Philosophy 2236 - Environmental Philosophy

Philosophy 3401 - Social and Political Philosophy

Philosophy 3402 - Biomedical Ethics

**One of:**

<sup>1</sup> Indigenous Studies 2100 - Indigenous Peoples and Law

Management 3010 - Business Law

<sup>1</sup> Political Science 3241 - Canadian Constitutional Law: Federalism and First Nations

<sup>1</sup> Political Science 3245/Women and Gender Studies 3245 - The Charter, Gender, and Social Change

<sup>1</sup> Prerequisite required that is not part of the minor

Alternative courses may be counted toward the minor provided (1) they are clearly related to Philosophy of Law and (2) they are approved by the Chair of the Department of Philosophy.

**ao. Physical Geography**

Not available to Geography, Archaeology and Geography, Computer Science and Geographical Information Science, Environmental Science, Remote Sensing, Agricultural Studies (if the Geography subfield is chosen as the primary subfield), or Applied Statistics (if Geography is chosen as the concentration) majors, or if Geography is chosen as one of the disciplinary streams in the General Major in the Sciences.

**Required courses:**

Geography 1000 - Introduction to Physical Geography

**Three of:**

Geography 2030 - Geomorphology

Geography 2065 - Physical Geology

Geography 2090 - Biogeography

Geography 2300 - Weather and Climate

Geography 2735 - Introduction to Geographical Information Science

Two courses (6.0 credit hours) in Geography at the 3000/4000 level, with a science designation.

**ap. Physics**

Not available to Physics or Remote Sensing majors, or if Physics is chosen as one of the disciplinary streams in the General Major in the Sciences.

**Required courses:**

Physics 2000 - Introduction to Physics II

Physics 2120 - Introduction to Physics III

Physics 2130 - Waves, Optics and Sound

Physics 3750 - Contemporary Physics

**One of:**

Physics 1000 - Introduction to Physics I

Physics 1050 - Introduction to Biophysics

**One of:**

Astronomy 2020 - Modern Astronomy

Astronomy 2070 - The Solar System

Astronomy 3020 - Introduction to Cosmology

Students who have completed Physics courses as required for their major must choose one substitution course (in place of Physics 1000 or Physics 1050) or two substitution courses (in place of Physics 1000 or Physics 1050 and Physics 2000) from the following list:

Physics 2150 - Quantum Mechanics I

Physics 2800 - Methods in Mathematical Physics

Physics 2925 - Introduction to Experimental Physics

Any Physics course at the 3000 level



**aq. Political Science**

Not available to Political Science majors, or if Political Science is chosen as one of the disciplinary streams in the General Major in the Social Sciences.

**Required courses:**

Six courses (18.0 credit hours) in Political Science, including at least one Political Science course (3.0 credit hours) at the 3000/4000 level.

No more than one Independent Study (Political Science 1990, 2990, 3990, 4990) or Applied Studies (Political Science 2980, 3980, 4980) course may be counted towards the minor.

**ar. Population Health****Six of:**

Aboriginal Health 1000 - Introduction to Aboriginal Health  
Addictions Counselling 4200 - Community Development and Outreach  
Health Sciences 1170 - Human Development Across the Lifespan  
Health Sciences 2003/Biology 2003 - Epidemiology  
Health Sciences 2600/Women and Gender Studies 2100 - Women and Health  
Health Sciences 2700/Sociology 2700 - Health and Society  
Health Sciences 2806/Biology 2806 - Immunology  
Health Sciences 3002 - Health Promotion  
Health Sciences 3510 - Program Planning and Evaluation  
Health Sciences 3800 - Teaching and Learning for Health Professions  
Health Sciences 3802 - Gerontology  
Health Sciences 3860 - Men's Health  
Public Health 1000 - Introduction to Public Health  
Public Health 2000 - Population Health  
Public Health 3000 - Canadian and Global Perspectives  
Public Health 3420 - Public Health Ethics

**as. Religious Studies**

Not available to Religious Studies majors, or if Religious Studies is chosen as one of the disciplinary streams in the General Major in the Humanities.

**Required courses:****One of:**

Religious Studies 1000 - Introduction to World Religions  
Religious Studies 2001 - Religion, Worldviews, and Identity

One course in Religious Studies (3.0 credit hours) at the 3000/4000 level

Four additional courses (12.0 credit hours) in Religious Studies

Independent Study (Religious Studies 1990, 2990, 3990, 4990) or Applied Studies (Religious Studies 2980, 3980, 4980) courses may not be counted towards the minor in Religious Studies.

**at. Sociology**

Not available to Sociology majors, or if Sociology is chosen as one of the disciplinary streams in the General Major in the Social Sciences.

**Required courses:**

Six courses (18.0 credit hours) in Sociology, including at least two courses (6.0 credit hours) in Sociology at the 3000/4000 level

No more than one Independent Study (Sociology 1990, 2990, 3990, 4990) or Applied Studies (Sociology 2980, 3980, 4980) course may be counted towards the minor.

**au. Spanish**

Not available to French/Spanish majors, or if Spanish is chosen as one of the disciplinary streams in the General Major in the Humanities.

**Required courses:**

Spanish 2300 - Introduction to Hispanic Literature and Literary Analysis

**One of:**

Spanish 3001 - Advanced Language  
Spanish 3002 - Spanish for Professional Contexts

Four additional courses (12.0 credit hours) in Spanish

Students may **not** count Spanish 1000 (Beginners' Spanish I) among the six courses required for the minor. No more than one Independent Study (Spanish 1990, 2990, 3990, 4990) or Applied Studies (Spanish 2980, 3980, 4980) course may be counted towards the minor.

**av. Supply Chain and Operations Management****Required Courses:**

Management 3070 - Supply Chain Management and Sustainability

Management 3075 - Operations Modelling with Spreadsheets

Management 3920 - Project Management

**One of:**

Management 3775 - Quality Management

Management 4074 - Supply Chain Technology and Blockchain

Management 4775 - Seminars on Supply Chain and Operations Management Issues (Series)

**Two of:**

Economics 2750 - Quantitative Methods in Economics

International Management 3225/Geography 3225 - Industrial Location and Globalization of Enterprise

Management 2070/Economics 2070 - Operations and Quantitative Management

Management 3010 - Business Law

Management 3775 - Quality Management

Management 4074 - Supply Chain Technology and Blockchain

Management 4775 - Seminars on Supply Chain and Operations Management Issues (Series)

Marketing 3862 - Digital Marketing

**Note:** Any course required by a student's program must be substituted by an additional elective from the list above.

**aw. Theatre Practice**

Not available to Dramatic Arts, Performance or Technical/Design majors.

**Required Courses:**

Drama 1000 - Introduction to Dramatic Arts

Drama 2010 - Performance Fundamentals

Drama 2810 - Introduction to Stagecraft

**One of:**

Drama 2310 - Acting I

Drama 2320 - Voice I

Drama 2340 - Movement I

Drama 2740 - Devised Theatre I

Drama 2825 - Introduction to Design for Theatre

**One of:**

Drama 2600 - Drama Portfolio I

Drama 3611 - Advanced Stagecraft I

A Drama elective at the 3000/4000 level

Students completing both the Theatre Practice and Theatre Studies minors must replace Drama 1000 with two of the following courses: Drama 2310, Drama 2320, Drama 2340, Drama 2740, and Drama 2825.

**ax. Theatre Studies**

Not available to Dramatic Arts, Performance, or Technical/Design majors.

**Required Courses:**

Drama 1000 - Introduction to Dramatic Arts

Drama 2100 - Play Reading and Analysis

Drama 2120 - History and Development of Theatre I

Drama 2130 - History and Development of Theatre II

Drama 3130 - Canadian Theatre

**One of:**

Drama 3150 - Theatre Studies (Series)

Drama 3151 - Play Reading and Analysis II

Drama 3160 - Dramaturgy

**ay. Women and Gender Studies**

Not available to Women and Gender Studies majors, or if Women and Gender Studies is chosen as one of the disciplinary streams in the General Major in the Social Sciences.

**Required courses:**

Women and Gender Studies 1000 - Introduction to Women and Gender Studies

Women and Gender Studies 2300 - Feminist Theoretical Frameworks

Women and Gender Studies 2600 - Activism and Advocacy

Women and Gender Studies 2700 - Feminist Approaches to Research

Two Women and Gender Studies courses (6.0 credit hours) at the 3000/4000 level

No more than one Independent Study (Women and Gender Studies 1990, 2990, 3990, 4990) or Applied Studies (Women and Gender Studies 2980, 3980, 4980) course may be counted towards the minor.



# APPLIED STUDIES AND CO-OPERATIVE EDUCATION

<b>1. GENERAL PHILOSOPHY AND INFORMATION</b>	<b>340</b>	<b>3. CO-OPERATIVE EDUCATION</b>	<b>340</b>
<b>2. APPLIED STUDIES</b>	<b>340</b>	a. Eligibility for Participation	341
a. Eligibility for Participation	340	b. Requirements	341
b. Registration	340	c. Registration and Grading	342
c. Earning Credit	340	d. Co-operative Education Designation	342

## 1. GENERAL PHILOSOPHY AND INFORMATION

University of Lethbridge students may explore liberal education through their academic classes and work-integrated learning experiences. The University of Lethbridge offers students services through the Career Bridge office, which administers Applied Studies courses and Co-operative Education courses for students in many undergraduate programs.

Further information and details concerning eligibility and requirements may be obtained from the Career Bridge office (AH151; 403-329-2000; [career.bridge@uleth.ca](mailto:career.bridge@uleth.ca); [www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)).

## 2. APPLIED STUDIES

Applied Studies courses offer students the opportunity to earn course credit through employment or volunteer experiences that offer significant learning at a level suitable for the awarding of university credit. During the Applied Studies placement, students explore their interests and aptitudes, and test and reinforce the theories and principles learned in the classroom.

Applied Studies:

- Allows students to earn course credit through paid or volunteer employment at the 2000/3000/4000 level; and
- Relates academic theory to practice in the student's field of study.

### a. Eligibility for Participation

Students must achieve a minimum cumulative GPA of 2.00 (on the University of Lethbridge 4.00 scale), and second-year standing (minimum of 30.0 credit hours) to be eligible to take an Applied Studies course.

Each Faculty/School may have limitations on the number of Applied Studies courses a student may complete during their program. Students should consult with the academic program, major, or minor requirements in the Academic Calendar or consult with an academic advisor in their Faculty/School or an Applied Studies Coordinator in the Career Bridge office.

### b. Registration

To register in Applied Studies courses, students must apply to the Career Bridge office no later than the application deadline. Application packages and deadline dates may be obtained from the Career Bridge office (AH151; 403-329-2000; [applied.studies@uleth.ca](mailto:applied.studies@uleth.ca); [www.ulethbridge.ca/career-bridge/applied-studies](http://www.ulethbridge.ca/career-bridge/applied-studies)).

### c. Earning Credit

Credit is earned in Applied Studies 2000 or 2001 for successful completion of 120 placement hours, an employer evaluation, and written assignments. Additional credit in Applied Studies 2010 or 2011 may be earned by successful completion of a Learning Plan that outlines learning objectives, and an academic project or paper exploring a job-related issue within a specific academic context.

Disciplinary credit is earned for successful completion of 120 placement hours, an employer evaluation, submission of a Learning Plan that outlines learning objectives, and an academic project or paper to be graded by a supervising faculty member from within the selected discipline. Disciplinary credit is signified by the series numbers 2980-85, 3980-85, and 4980-85.

## 3. CO-OPERATIVE EDUCATION

Co-operative Education is an optional academic program for students in the Faculties of Arts and Science, Fine Arts, Health Sciences, and the Dhillon School of Business. Dual Admission students are also eligible to participate in Co-operative Education prior to or after activation of their enrolment at the University of Lethbridge. Co-operative Education is a nationally recognized form of work-integrated learning that combines real-world work experience with academic studies to enrich the student's academic, intellectual, personal, and professional development. The program works to create a partnership between students, the University, and the employer, bridging academic theory with professional development and practical application. The co-op experience allows students to alternate academic terms of study with remunerated work terms in a professional work place.

Benefits of Co-operative Education:

- Allows students to experience real-world application of their discipline;
- Introduces students to employment possibilities in the workplace;
- Develops valuable research skills for future work experience or graduate school;
- Encourages proactive job search skills and professional development;
- Provides students with challenging and relevant remunerated work experience;
- Assists students in making realistic and informed career choices;
- Provides the opportunity for students to build valuable contacts with employers; and
- Assists students in the transition from University to the workplace.

Students must acknowledge, accept, and abide by the requirements and regulations as outlined in the Academic Calendar and the co-op student agreement.

### a. Eligibility for Participation

Students seeking to participate in a co-op program are encouraged to contact the Career Bridge office as early as possible in their academic programs. It is recommended that students complete a minimum of 10 courses (30.0 credit hours) prior to their first co-op work term.

#### 1. Criteria for Eligibility

##### a. Academic Standing

Dhillon School of Business

- Minimum cumulative GPA of 2.70 (on the University of Lethbridge 4.00 scale).

Faculties of Arts and Science, Fine Arts, and Health Sciences

- Minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.00 scale).

**Note:** Students who do not meet the above GPA requirements may be considered on a case-by-case basis and are encouraged to contact the Career Bridge office.

##### b. Submission of co-op application online ([www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)).

##### c. Successful completion of the Co-op Preparation course and Co-op Admission course, a personal intake interview, and pre-employment preparation training prior to the first work term.

#### 2. Dual Admission Applicants

Students participating in Dual Admission are eligible to apply for a co-op program while attending a partner institution and prior to or after activation of their enrolment at the University of Lethbridge. These individuals are encouraged to contact the Career Bridge office at least six months in advance of their intended co-op term. Dually admitted students must meet the criteria for admission for their intended University of Lethbridge program to be eligible to participate in a co-op program.

#### 3. Transfer of Co-op Terms

For the purpose of fulfilling the Co-operative Education designation requirement of three co-op work terms, a maximum of one co-op work term from another institution with formal Co-operative Education programs shall be eligible for recognition toward the requirement. To be eligible for recognition, the co-op work term shall be subject to special assessment by the Career Bridge office. An approved co-op work term must be registered as a non-academic course on the student's transcript from the sending institution and must have received either a passing letter grade or 'Pass'.

### b. Requirements

Students may complete between one and six co-op work terms in one or more placements. Co-op work terms are normally four months in length (minimum 420 hours per term) and can begin in January, May, or September. Students are required to complete pre-employment preparation training prior to the first work term.

Students are required to complete the Co-op Preparation course and Co-op Admission course, a personal intake interview and pre-employment preparation training prior to the first work term.

Co-op work terms are also available and are 12-16 months in duration at a single workplace.

Co-op work terms are assigned the following course names and numbers:

Dhillon School of Business

- Management 3002 - Co-op Work Experience I
- Management 3003 - Co-op Work Experience II
- Management 3004 - Co-op Work Experience III
- Management 3005 - Co-op Work Experience IV
- Management 3008 - Co-op Work Experience V
- Management 3009 - Co-op Work Experience VI

Faculty of Arts and Science

- Arts and Science 3011 - Co-op Work Experience I
- Arts and Science 3012 - Co-op Work Experience II
- Arts and Science 3013 - Co-op Work Experience III
- Arts and Science 3014 - Co-op Work Experience IV
- Arts and Science 3015 - Co-op Work Experience V
- Arts and Science 3016 - Co-op Work Experience VI

Faculty of Fine Arts

- Fine Arts 3001 - Co-op Work Experience I
- Fine Arts 3002 - Co-op Work Experience II
- Fine Arts 3003 - Co-op Work Experience III
- Fine Arts 3004 - Co-op Work Experience IV
- Fine Arts 3005 - Co-op Work Experience V
- Fine Arts 3006 - Co-op Work Experience VI

## Faculty of Health Sciences

- Health Sciences 3331 - Co-op Work Placement I
- Health Sciences 3332 - Co-op Work Placement II
- Health Sciences 3333 - Co-op Work Placement III
- Health Sciences 3334 - Co-op Work Placement IV
- Health Sciences 3335 - Co-op Work Placement V
- Health Sciences 3336 - Co-op Work Placement VI

**c. Registration and Grading**

Students may complete co-op work terms from more than one Faculty/School; each successive work term is registered sequentially. Students may opt to complete a maximum of six co-op work terms.

**Note:** *International students require a co-op work permit to participate in a Co-operative Education program. International students may complete three co-op work terms; no more and no less. See [www.canada.ca/en/immigration-refugees-citizenship/services/study-canada/work/intern.html](http://www.canada.ca/en/immigration-refugees-citizenship/services/study-canada/work/intern.html) for specific details. For more information, contact the International Centre (SU060; 403-329-2053; [international@uleth.ca](mailto:international@uleth.ca)) or the Career Bridge office (AH151; 403-329-2000; [coop@uleth.ca](mailto:coop@uleth.ca)).*

Students must be registered for the entire duration of the work term(s) applied for through the co-op programs, including extensions. Once registered, students are not permitted to withdraw from the work term without penalty of failure ('F'). A grade of 'F' will be entered on the academic transcript for the term(s) unless extenuating circumstances warrant granting of a Withdrawal with Cause ('WC'), in accordance with University of Lethbridge policy (see **Academic Regulations, p. 51**). Where approval is granted by the Co-op program and the appropriate Faculty/School Dean, a 'WC' will be entered on the academic transcript. Tuition fees will be assessed as per the University's policy. Students should contact a co-op coordinator for assistance with the procedure.

**d. Co-operative Education Designation**

To receive the Co-operative Education designation upon conferral of their degree, students must have successfully completed a minimum of three co-op work terms in addition to their degree program requirements.

Students in eligible combined degree programs will receive the Co-operative Education designation on both degrees if they complete at least two co-op work terms from each Faculty/School. In the case where a student completes only three co-op work terms, the designation will apply to the degree where the majority of co-op terms is completed.

# COURSE CATALOGUE

<b>1. COURSE SUBJECT ABBREVIATIONS</b> . . . . .	<b>344</b>	<b>5. FEES</b> . . . . .	<b>346</b>
<b>2. WHERE TO GET MORE INFORMATION</b> . . . . .	<b>344</b>	<b>6. TIMETABLE</b> . . . . .	<b>347</b>
<b>3. COURSE NUMBERING SYSTEM</b> . . . . .	<b>344</b>	<b>7. DISCLAIMER</b> . . . . .	<b>347</b>
<b>4. DEFINITIONS</b> . . . . .	<b>344</b>	<b>8. HOW TO READ A COURSE DESCRIPTION</b> . . . . .	<b>347</b>
a. <b>Term</b> . . . . .	<b>344</b>		
b. <b>Course</b> . . . . .	<b>344</b>		
c. <b>Course Types</b> . . . . .	<b>344</b>		
d. <b>Course Elements</b> . . . . .	<b>345</b>		

## Dhillon School of Business

Accounting (ACCT) . . . . .	348
Agricultural Enterprise Management (AGEM) . . . . .	354
Finance (FINC) . . . . .	408
Human Resources and Labour Relations (HRLR) . . . . .	429
Indigenous Governance and Business Management (IGBM) . . . . .	431
International Management (IMGT) . . . . .	442
Management (MGT) . . . . .	454
Marketing (MKTG) . . . . .	460

## English Language Institute

English for Academic Purposes (EAP) . . . . .	406
---	-----

## Faculty of Arts and Science

Agricultural Biotechnology (AGBT) . . . . .	354
Agricultural Studies (AGST) . . . . .	355
Anthropology (ANTH) . . . . .	356
Applied Studies (APST) . . . . .	359
Archaeology (ARKY) . . . . .	360
Arts and Science (ASCI) . . . . .	368
Asian Studies (ASIA) . . . . .	368
Astronomy (ASTR) . . . . .	369
Biochemistry (BCHM) . . . . .	369
Biology (BIOL) . . . . .	371
Blackfoot (BKFT) . . . . .	376
Canadian Studies (CNST) . . . . .	377
Chemistry (CHEM) . . . . .	377
Computer Science (CPSC) . . . . .	381
Cree (CREE) . . . . .	384
Economics (ECON) . . . . .	390
Engineering (ENGG) . . . . .	401
English (ENGL) . . . . .	402
Environmental Science (ENVS) . . . . .	407
French (FREN) . . . . .	412
Geography (GEOG) . . . . .	414
Hebrew (HEBR) . . . . .	424
Hispanic Studies (HPST) . . . . .	424
History (HIST) . . . . .	424
Indigenous Student Success Cohort (ISSC) . . . . .	433
Indigenous Studies (INDG) . . . . .	434
Interdisciplinary Studies (IDST) . . . . .	441
Japanese (JPNS) . . . . .	444
Japanese Studies (JPST) . . . . .	445
Kinesiology (KNES) . . . . .	445
Latin (LATI) . . . . .	449

Library Science (LBSC) . . . . .	452
Linguistics (LING) . . . . .	452
Logic (LOGI) . . . . .	453
Mathematics (MATH) . . . . .	462
Neuroscience (NEUR) . . . . .	480
Philosophy (PHIL) . . . . .	494
Physical Activity (PHAC) . . . . .	498
Physics (PHYS) . . . . .	499
Political Science (POLI) . . . . .	501
Psychology (PSYC) . . . . .	505
Religious Studies (RELS) . . . . .	512
Remote Sensing (RMTS) . . . . .	514
Sociology (SOCL) . . . . .	515
Spanish (SPAN) . . . . .	518
Statistics (STAT) . . . . .	519
Urban and Regional Studies (UBRE) . . . . .	522
Women and Gender Studies (WGST) . . . . .	522
Writing (WRIT) . . . . .	524

## Faculty of Education

Career Development (CDEV) . . . . .	377
Education (EDUC) . . . . .	394

## Faculty of Fine Arts

Art (ART) . . . . .	361
Art History (ARHI) . . . . .	365
Cinema (CINE) . . . . .	380
Drama (DRAM) . . . . .	384
Fine Arts (FA) . . . . .	411
Museum Studies (MSTU) . . . . .	466
Music (MUSI) . . . . .	467
Music Ensemble Activity (MUSE) . . . . .	473
Music Studio (MUSS) . . . . .	479
New Media (NMED) . . . . .	483

## Faculty of Health Sciences

Aboriginal Health (ABHL) . . . . .	348
Addictions Counselling (ADCS) . . . . .	351
Health Sciences (HLSC) . . . . .	421
Nursing (NURS) . . . . .	488
Public Health (PUBH) . . . . .	511
Therapeutic Recreation (TREC) . . . . .	520

## School of Liberal Education

Liberal Education (LBED) . . . . .	449
------------------------------------	-----



## 1. COURSE SUBJECT ABBREVIATIONS

The University assigns an abbreviated designation to each course subject. These subject abbreviations are listed in parentheses for subjects included in this Calendar's course listings.

Some subjects do not appear in the course listings in this Calendar, including Geology (GEOL), Greek (GREK), and Modern Languages (MODL) at the undergraduate level.

## 2. WHERE TO GET MORE INFORMATION

Students may obtain information about the content of a specific course by inquiring at the academic unit - department, Faculty, or School - which offers that course.

Information about which courses will be offered - when, where, and by which instructor - is provided in the current term timetable, available online at [www.ulethbridge.ca/ross/timetable](http://www.ulethbridge.ca/ross/timetable).

## 3. COURSE NUMBERING SYSTEM

The first digit indicates the level of the course:

0100 - 0999

Elementary courses.

1000 - 1998

Introductory courses usually taken during the first year. The basic course in each subject is usually 1000.

2000 - 2998

Intermediate courses usually taken during the first and second years.

3000 - 3998

Senior courses usually taken during the third year.

4000 - 4998

Senior courses usually taken during the fourth year.

1850, 2850, 3850, 4850

Numbers which designate Topics courses in various disciplines.

2980-85, 3980-85, 4980-85

Numbers which designate Applied Studies in various disciplines.

1990, 2990, 3990, 4990

Numbers which designate Independent Study courses in various disciplines at the undergraduate level (3.0 credit hours).

1999, 2999, 3999, 4999

Placeholder courses.

4995

Undergraduate Thesis courses.

## 4. DEFINITIONS

### a. Term

Term refers to a period of study (for more information, see the **Glossary, p. 533**). Students should consult the **Academic Schedule (p. 15)** at the front of this Calendar to learn the specific dates for the start and end of each term.

### b. Course

Course refers to a unit of study (called a course or course equivalent) normally studied for one term. A course normally carries a weighting of three credit (3.0) hours. The University offers some units of study which deviate from this norm.

### c. Course Types

#### 1. Applied Studies

An opportunity for students to gain University course credit for volunteer or employment experience. See **Applied Studies and Co-operative Education (p. 339)**.

#### 2. Independent Study

A course for which credit is earned through individual study under the supervision of an instructor. This option may be elected as early as the first term or as late as the last, depending upon the capability of the student for undertaking academic work with minimum guidance. Course work may require library and/or field research and/or a major term paper.

Students wishing to improve their grade in an Independent Study course must repeat the section with the identical title (for more information, see **Academic Regulations, Repeat of a Course, p. 55**).

For further information, students should consult the department or the faculty member under whom they wish to pursue an Independent Study (see also the Independent Study sections in **Faculty of Arts and Science, Independent Study (p. 91)**; **Faculty of Education, Independent Study (p. 159)**; **Faculty of Fine Arts, Independent Study (p. 172)**; **Faculty of Health Sciences, Independent Study (p. 198)**; and **Dhillon School of Business, Independent Study (p. 214)**).

## 3. Series

A course that is offered regularly at the University of Lethbridge, but whose content may vary with different offerings. Each Series has one number (e.g., Anthropology 3900, English 3700) and different offerings in the Series are indicated by the title of the course, as listed in the current term timetable. Students may take more than one offering of a Series course for credit if the offerings are distinct (i.e., if each offering taken has a different title).

Students wishing to improve their grade in a Series course must repeat the section with the identical title (for more information, see **Academic Regulations, Repeat of a Course, p. 55**).

A Series course may be specified as a required course in a major or program.

## 4. Topics

A course that is not offered regularly at the University of Lethbridge and whose content varies with different offerings. Any Faculty or School may offer Topics courses. Each Topics course is identified by the number 1850, 2850, 3850, or 4850, and different offerings are indicated by the title of the particular section, as listed in the current term timetable. Students may take more than one offering of a Topics course for credit if the offerings are distinct (i.e., if each offering taken has a different title).

Contact hours for Topics courses may vary according to the nature of the course. Check the specific Topics offering for complete information.

Students wishing to improve their grade in a Topics course must repeat the section with the identical title. From time to time, Topics offerings are made into regularly scheduled courses and listed in the Calendar. In this case, students must complete the regularly scheduled course that corresponds to the particular Topics offering in order to improve their grade (for more information, **Academic Regulations, Repeat of a Course, p. 55**).

A Topics course cannot be specified as a required course in any major or program.

## 5. Cross-Listed

A cross-listed course is a single course originating from two different Faculties or Schools or two different departments within the same Faculty or School. Cross-listed courses appear in the Calendar and on student's academic records in the dual form, for example, Management 2070/Economics 2070.

## 6. Online

Courses may be offered online or have online components. Such courses are identified in the current term timetable. The course information listed in the Calendar (e.g., credit hours, course description) applies to all offerings of that course.

## 7. Placeholder

## a. Active Student Status

A Placeholder course (e.g., New Media 4999) that enables students not registered in credit courses to maintain active student status in their program. No credit hours are attached to this Placeholder.

## b. Continuing Student Status

A Placeholder course (e.g., Agricultural Studies 3999, Environmental Science 3999, Visiting 9999, Exchange 9999) that enables students registered elsewhere to maintain continuing student status for registration purposes. No credit hours are attached to this Placeholder.

## c. Full-Time Status

Professional Semester I and Professional Semester II Placeholder courses (i.e., Education 3599 and Education 3699) that facilitate block-registration arrangements to be finalized by the Faculty of Education. For student loan/scholarship enrolment verification purposes, 15.0 credit hours are attached to this Placeholder.

## d. Course Elements

## 1. Subject and Course Number

The subject identifies the course discipline, and the course number identifies the course level (see **Course Numbering System, p. 344**).

## 2. Course Title

A descriptive title is given for each subject and course number. The title of a given course may occasionally change. A change in course title does not constitute a new course. Accordingly, students who repeat a course with the same subject and course number, regardless of the course title, are bound by the regulations given in **Academic Regulations, Repeat of a Course, p. 55**.

Special regulations apply to Topics and Series courses (see **Series, p. 345** and **Topics, p. 345**).

## 3. Credit Hours

The weighting factor of a course when determining GPA. Regular full-term credit courses carry a weighting of 3.0 credit hours, while half-credit courses carry a weighting of 1.5 credit hours. Some courses carry non-standard credit hours (e.g., Art 3040 is worth 6.0 credit hours). A student requires a minimum of 120.0 credit hours to complete a standard undergraduate four-year degree at the University of Lethbridge.

## 4. Contact Hours

There are two types of contact hours: (1) hours per week, and (2) other hours per term. 'Contact hours per week' are regularly scheduled weekly meeting times, while 'Other hours per term' are meeting times that are scheduled at irregular times over the term.

Contact hours per week: a-b-c

- a - number of required lecture or studio\* hours per week
- b - number of required laboratory hours per week
- c - number of required hours per week in a different setting (e.g., tutorial)

Other hours per term: d-e-f

- d - number of required lecture or studio\* hours per term
- e - number of required laboratory hours per term
- f - number of required hours per term in a different setting (e.g., tutorial, field trip, rehearsal)

All contact hours may be delivered by a number of means, including, but not limited to, the following:

- a regular University classroom
- a University computer lab
- online
- an off-campus location

\*Studio courses are identified as such in the offering note for the course.

## 5. Prerequisite(s), Corequisite(s), Mutual Exclusion(s), Recommended Background, and Other Registration Restrictions

Some courses require an appropriate background of knowledge as indicated by the prerequisite(s), corequisite(s), and recommended background. A prerequisite must be completed successfully before a student is eligible to register in a given course. A corequisite must be taken prior to or in conjunction with another course. Students who have previously passed such a course will be deemed to have met the corequisite requirement.

A student lacking the prerequisite or corequisite for a particular course may apply for a waiver of prerequisite/corequisite from the Faculty/School offering the course.

Some courses cannot be taken in conjunction with another course or if the other course has previously been successfully passed as indicated by the mutual exclusion(s). Students who are registered in or have previously passed a course listed as mutually exclusive may apply for a waiver to register from the Faculty/School offering the course.

For some courses, a recommended background is listed instead of, or in addition to, prerequisite(s) and corequisites(s) so that the student may judge his or her own academic preparation.

Prerequisites, corequisites, and recommended backgrounds are normally expressed in terms of Alberta high school subjects, one or more courses, admission to programs offered by the University of Lethbridge, year of standing, and/or other special requirements.

A prerequisite or recommended background that specifies year of standing indicates that students are expected to have attained a certain level of academic or intellectual advancement prior to registering in a particular course.

For some courses, students may not exceed a defined year of standing prior to registering in the course. These courses are closed to students who have taken more than the specified number of courses or who are beyond the determined year of standing at the time of registration. These limits are applied when a course is targeted to a specific group of junior students.

Although students may choose to have their program requirements governed by the Calendar in effect at the time of their most recent admission to the University (see **Admission, Year of the Calendar, p. 34**), all students are bound by the current Calendar with regard to prerequisites, corequisites, mutual exclusions, and recommended backgrounds for individual courses.

## 6. Equivalent

Equivalent courses can be substituted, one for the other, to meet any specified course requirement. The regulations that apply to repeated courses also apply to equivalent courses. Students should note, in particular, the calculation of GPA (see **Academic Regulations, Repeat of a Course, p. 55**).

**Note:** A course offered at a given level (2000-, 3000-, 4000-level) will be used to meet requirements only at that level.

## 7. Substantially Similar

Substantially similar courses contain a high percentage of similar course content but are not deemed equivalent. Students cannot use a substantially similar course to replace another course specified as a prerequisite. Students completing substantially similar courses must complete more than the minimum number of courses required in the program (see **Academic Regulations, Substantially Similar Course Limits, p. 56**).

## 8. Grading

Grading indicates what type of grade will be awarded as defined in **Academic Regulations (p. 51)**. The standard grading mode employed by instructors is a letter grade; the alternative grading mode is Pass/Fail. Credit/Non-Credit, which is at the discretion of the student, is not a grading mode.

## 5. FEES

For complete information about all fees, including additional fees for field trips, major specialty, etc., see **Fees (p. 43)**.

## 6. TIMETABLE

The timetable is a list of all courses scheduled in an academic term, both courses taught face-to-face as well as online. The timetable is published prior to registration opening so that students can learn more about courses being offered and plan their registration. The timetable includes information about when and where a course takes place, who is teaching the course, and other pertinent information about the course offering, such as special registration instructions or unique prerequisites. Access the timetable online ([www.ulethbridge.ca/ross/timetable](http://www.ulethbridge.ca/ross/timetable)) or log into the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)) to look up and register in courses.

## 7. DISCLAIMER

The appearance of a course in this Calendar does not guarantee that the course will be offered during the academic year for which this Calendar is published.

The University reserves the right to add, modify or withdraw any course or courses without notice.

## 8. HOW TO READ A COURSE DESCRIPTION

Prerequisite(s), corequisite(s), and recommended background may require a single item or more than one item.

A specified item may be a single course, a course chosen from a list, year of standing, admission to a University of Lethbridge program, or some other special requirement (for example, an audition, an interview, a specified cumulative GPA).

**When a student must complete two or more prerequisites, items are separated by 'AND'**

Prerequisite(s):	Biochemistry 2000 AND Chemistry 2600	In this example, two prerequisites and one corequisite must be met to register in the course. To meet the prerequisites, students must have completed Biochemistry 2000 AND Chemistry 2600.
Corequisite(s):	Chemistry 2740	To meet the corequisite, students must complete or have previously completed Chemistry 2740.

**When a student may satisfy the prerequisite(s)/corequisite(s) by alternate methods, the alternatives are normally separated by 'OR'**

Prerequisite(s):	Biology 2200 AND Environmental Science 2000 OR Admission to the Post-Diploma B.Sc. in Environmental Science program	In this example, either one or two prerequisites must be met to register in the course. To meet the prerequisites, students must have completed Biology 2200 AND Environmental Science 2000. However, students who have been admitted to the Post-Diploma B.Sc. in Environmental Science program are not required to present Biology 2200 and Environmental Science 2000.
------------------	---	---

**When a student must complete one course chosen from a list, the items are normally preceded by 'One of'**

Prerequisite(s):	Physics 30 AND One of Mathematics 30-I, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520	In this example, one prerequisite and one course from a list must be met to register in the course. To meet the prerequisite, students must have completed Physics 30 and must complete either Mathematics 30-I, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520.
------------------	--	--

<b>SUBJECT 9999</b> <b>Course Title</b> Credit hours: 3.00 Contact hours per week: a-b-c Other hours per term: d-e-f This is the Course Description. Prerequisite(s): Preliminary requirement which must be met or waived before course can be taken. Corequisite(s): Requirement must be taken prior to or in conjunction with another course. Students who have previously passed such a course will be deemed to have met the corequisite requirement. Mutually Exclusive: Students who are currently registered or who have earned a minimum passing grade in one of the mutually exclusive courses may not subsequently register in a section of another course with which it is mutually exclusive. Equivalent: Indicates courses that can be substituted, one for the other, to meet any specified course requirement. Substantially Similar: Indicates courses that contain a high percentage of similar course content but are not deemed equivalent. Students cannot use a substantially similar course to replace another course specified as a prerequisite. Grading: Indicates what type of grade will be awarded as defined in Academic Regulations (p. 51). Lib Ed Req: Course designation used for the purposes of meeting the Liberal Education List Requirement (p. 81). List/Subfield: List or Subfield used for the purposes of meeting program requirements. <b>Note:</b> Additional information related specifically to the course not covered elsewhere in the description.	Contact hours per week: a-b-c a - number of required lecture or studio hours per week b - number of required laboratory hours per week c - number of required hours per week in a different setting (e.g., tutorial) Other hours per term: d-e-f d - number of required lecture or studio hours per term e - number of required laboratory hours per term f - number of required hours per term in a different setting (e.g., tutorial, field trip, rehearsal) For additional information regarding each element of a Course Description see <b>Course Elements (p. 345)</b> .
--	--

## Aboriginal Health (ABHL) Faculty of Health Sciences

### ABORIGINAL HEALTH 1000 Introduction to Aboriginal Health

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Examination of factors and issues that impact the health status of Native people with an emphasis on Aboriginal Canadian perspectives.

*Equivalent: Health Sciences 2300 (prior to 2018/2019)*

*Lib Ed Req: Social Science*

### ABORIGINAL HEALTH 2000 Indigenous Healing and Restoration

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Examination of the meanings and mechanisms of healing and restoration, and the different ways that healing activities function at the physical, emotional, mental, social, and spiritual levels. Several perspectives will be incorporated including medical anthropology, psychiatry, psychology, Indigenous studies, and traditional Indigenous knowledge.

*Prerequisite(s): One of Aboriginal Health 1000, Indigenous Studies 1000, or Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Health Sciences 3850 (Indigenous Healing and Restoration) (prior to 2018/2019)*

*Lib Ed Req: Social Science*

### ABORIGINAL HEALTH 3300 Traditional Aboriginal Health Concepts

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The history, evolution and relevance to contemporary health care and health issues of traditional beliefs. Particular emphasis is placed on an examination of Aboriginal peoples of North America.

*Prerequisite(s): Aboriginal Health 1000*

*Equivalent: Health Sciences 3300 (prior to 2018/2019)*

*Lib Ed Req: Fine Arts and Humanities*

### ABORIGINAL HEALTH 3310 Contemporary Issues in Aboriginal Health

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An in-depth examination of contemporary issues in Aboriginal health including community planning, major health issues, government policy, Aboriginal control of health care, human resource development, alternative models of delivery, and environmental issues.

*Prerequisite(s): Aboriginal Health 1000*

*Equivalent: Health Sciences 3310 (prior to 2018/2019)*

*Lib Ed Req: Social Science*

### ABORIGINAL HEALTH 4350 Practicum in Aboriginal Health

*Credit hours: 15.00*

*Other hours per term: 0-0-382*

Students participate in a full-time fieldwork experience in an Aboriginal health environment (Reserve, school system, etc.).

*Prerequisite(s): Aboriginal Health 1000 AND Aboriginal Health 3300 AND Aboriginal Health 3310 AND 25 university-level courses (a minimum of 75.0 credit hours)*

*Equivalent: Health Sciences 4350 (prior to 2018/2019)*

*Grading: Pass/Fail*

## Accounting (ACCT) Dhillon School of Business

### ACCOUNTING 2100 Introductory Accounting

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to the financial accounting process, including consideration of the basic concepts underlying the preparation of financial statements. Issues relating to the identification, use, measurement, interpretation and communication of financial information will be presented. The focus of Accounting 2100 is on external users of information about an organization.

*Equivalent: Management 2100 (prior to 2021/2022)*

*Lib Ed Req: Social Science*

### ACCOUNTING 2400 Management Accounting

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to the role of management accounting in the process of gathering and applying information used to plan, make decisions, evaluate performance and control an organization. The focus of Accounting 2400 is on internal users of information about the organization.

*Prerequisite(s): Accounting 2100*

*Corequisite(s): Economics 1010 AND One of Statistics 1770 or [Health Sciences 3450/ Psychology 3450 and admission to the B.HSc./B.Mgt. Combined Degrees program]*

OR

*Admission to the Post-Bachelor Certificate in Accounting Fundamentals*

OR

*Admission to the Combined Post-Bachelor Certificates in Accounting*

*Equivalent: Management 2400 (prior to 2021/2022)*

**Note:** All prerequisite courses must have a minimum 'C-' grade.

### ACCOUNTING 3100 Intermediate Financial Accounting I

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Examination of generally accepted accounting principles for publicly accountable and private companies with respect to assets and income. The accounting cycle will be reviewed.

*Corequisite(s): Finance 3040*

OR

*Admission to the Post-Bachelor Certificate in Advanced Accounting*

OR

*Admission to the Combined Post-Bachelor Certificates in Accounting*

*Equivalent: Management 3100 (prior to 2021/2022)*

**ACCOUNTING 3101****Intermediate Financial Accounting II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of generally accepted accounting principles for publicly accountable and private companies with respect to liabilities and equity. Case analysis will be an integral part of the course.

*Prerequisite(s): Accounting 3100*

OR

Admission to the Post-Bachelor Certificate in Advanced Accounting

*Equivalent: Management 3101 (prior to 2021/2022)***Note:** All prerequisite courses must have a minimum 'C-' grade.**ACCOUNTING 3130****Cost Accounting***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of cost systems and the development of cost information, cost management and the use of cost information in managerial decision making. Topics include: cost terminology and cost behaviour, product costing (job order, process and operations costing), cost allocation including activity-based costing, variable costing, cost estimation, cost-volume-profit analysis, and using cost information to make cost, revenue, production and quality decisions. This course seeks to develop analytical and problem-solving skills.

*Prerequisite(s): Accounting 2400*

OR

Admission to the Post-Bachelor Certificate in Advanced Accounting

*Equivalent: Management 3130 (prior to 2021/2022)***Note:** All prerequisite courses must have a minimum 'C-' grade.**ACCOUNTING 3131****Management Control Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of management control systems and behavioural issues in accounting. This course uses cases to study the structure and processes of management control systems in various types of organizations. Topics include: behaviour in organizations, responsibility centers, transfer pricing, strategy and strategic planning, budget preparation, performance measurement and analyzing financial performance (variance analysis), management compensation, and controls for differentiated strategies. This course seeks to develop critical thinking, written and oral communication and case analysis skills.

*Prerequisite(s): Accounting 3130 AND*

One of Writing 1000,

English 1900, final grade of

80% or higher in AB high school

English Language Arts 30-1, or

successful completion of a

writing challenge test (see

information found at

[www.ulethbridge.ca/dhillon/](http://www.ulethbridge.ca/dhillon/advising-faqs)[advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))

OR

Admission to the Post-Bachelor

Certificate in Accounting

Fundamentals AND

Accounting 3130

OR

Admission to the Post-Bachelor

Certificate in Advanced

Accounting

OR

Admission to the Post-Bachelor

Combined Certificates in

Accounting

OR

Admission to the Combined

Post-Bachelor Certificates in

Accounting AND

Accounting 3130

*Corequisite(s): Finance 3040*

OR

Admission to the Post-Bachelor

Certificate in Advanced

Accounting

*Equivalent: Management 3131 (prior to 2021/2022)***Note:** All prerequisite courses must have a minimum 'C-' grade.**ACCOUNTING 3151****Introduction to Tax***Credit hours: 3.00**Contact hours per week: 3-0-0*

The objective of this course is to provide sufficient exposure to the workings of the personal and corporate Canadian income tax systems so that individuals are able to incorporate this knowledge into everyday life. Taxes impact almost all financial, and many non-financial, decisions. The after-tax consequences can only be appreciated if the decision maker understands the workings of the Canadian tax system and can plan for the appropriate outcomes. Emphasis is placed on applying, analyzing, and evaluating introductory concepts as they pertain to tax planning and decision making.

*Prerequisite(s): Accounting 2400*

OR

Admission to the Post-Bachelor

Certificate in Advanced

Accounting

*Corequisite(s): Accounting 3100*

OR

Admission to the Post-Bachelor

Certificate in Advanced

Accounting

*Equivalent: Management 3151 (prior to 2021/2022)***Note:** All prerequisite courses must have a minimum 'C-' grade.**ACCOUNTING 3160****Auditing***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the economic, ethical, and legal context of financial statement auditing, materiality, audit risk, internal controls, audit planning, and audit sampling.

*Prerequisite(s): Accounting 3100*

OR

Admission to the Post-Bachelor

Certificate in Advanced

Accounting

*Equivalent: Management 3160 (prior to 2021/2022)***Note:** All prerequisite courses must have a minimum 'C-' grade.

**ACCOUNTING 3171****Accounting Information Systems and Data Analytics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination and application of information technology and data analytics in an accounting and business context. Typical topics will include: information systems concepts; presentation of accounting information for management decision making; business case for systems in organizations; key accounting systems and technology used by organizations; information quality; data and information modelling; data analytics and visualization for accounting; information systems life cycle; and accounting information systems risks and controls.

*Prerequisite(s):* Accounting 2100 AND Accounting 2400 AND One of Economics 2900 or Statistics 2780  
OR  
Admission to the Post-Bachelor Certificate in Advanced Accounting

*Mutually Exclusive:*

Management 3062

*Equivalent:* Management 3171 (prior to 2021/2022);  
Management 3170 (prior to 2020/2021)

**Note:** The Accounting prerequisite courses must have a minimum 'C-' grade.

**ACCOUNTING 3180****Analyzing Cases in Accounting***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides a case-based examination of issues in financial and managerial accounting. Students will develop a conceptual framework for approaching and resolving integrated accounting cases, as well as sharpen their analytical, technical, communication, and decision-making competencies. Through case analysis, this course encourages students to practice critical thinking, interpret and contextualize complex information, and communicate professionally. As a result, students will gain proficiency in evaluating unstructured business and accounting problems.

*Prerequisite(s):* Accounting 3101 AND Accounting 3130  
OR  
Admission to the Post-Bachelor Certificate in Advanced Accounting

*Corequisite(s):* One of Writing 1000, English 1900, final grade of 80% or higher in AB high school English Language Arts 30-1, successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs)), or admission to the Post-Bachelor Certificate in Advanced Accounting

*Equivalent:* Management 3180 (prior to 2021/2022)

**Note:** All prerequisite courses must have a minimum 'C-' grade.

**ACCOUNTING 3190****Not-for-Profit and Public Sector Accounting and Performance Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

The purpose of this course is to provide students with an understanding of performance management and reporting, internal controls, and decision-making in public sector and not-for-profit organizations. The course integrates related professional accounting standards and non-financial measures with a variety of learning activities. Students will engage in analysis and problem-solving in government and not-for-profit contexts, with an emphasis on stakeholder expectations and sector-specific performance management.

*Prerequisite(s):* Accounting 2100  
OR  
Admission to the Post-Bachelor Certificate in Advanced Accounting  
OR  
Admission to the Combined Post-Bachelor Certificates in Accounting

*Equivalent:* Management 3190 (prior to 2021/2022);  
Management 3850 (Government and Not-For-Profit Accounting) (prior to 2020/2021)

*Lib Ed Req:* Social Science

**Note:** All prerequisite courses must have a minimum 'C-' grade.

**ACCOUNTING 4110****Advanced Financial Accounting***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of financial accounting standards for long term investments, including consolidation techniques, accounting for transactions in foreign currency, translation of foreign currency financial statements, and an introduction to accounting for not-for-profit organizations.

*Prerequisite(s):* Accounting 3101  
OR  
Admission to the Post-Bachelor Certificate in Advanced Accounting

*Equivalent:* Management 4110 (prior to 2021/2022)

**Note:** All prerequisite courses must have a minimum 'C-' grade.

## ACCOUNTING 4125/ AGRICULTURAL ENTERPRISE MANAGEMENT 4125

### Accounting and Agricultural Enterprises

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course examines the issues distinct to financial and managerial accounting and taxation for agri-business. Topics include financial reporting and measurement of biological assets and products; exploration of government assistance and related accounting issues; costing, control, and valuation challenges related to agricultural assets, particularly inventory; and taxation and succession planning. An overview of the audit process and related preparation may also be provided.

*Prerequisite(s): Accounting 2100 AND Accounting 2400*

OR

*Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Corequisite(s): Finance 3040*

OR

*Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Equivalent: Management 4125 (prior to 2021/2022)*

## ACCOUNTING 4130

### Advanced Management Accounting

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course mostly consists of reviewing and solidifying previously taught material and learning to integrate and apply it to real-life cases, so recommendations are technically accurate, comprehensive, reflective of a company's strategic context and, ultimately, useful to management. Through hand-in case assignments and daily examination of unstructured cases, the course assists in the development of critical thinking (judgement, analysis, diagnostic and evaluation) along with the ability to communicate persuasively, using both oral and written formats. These skills are the hallmark of any professional. The small class size permits students to gain confidence in presenting ideas and to receive considerable guidance and feedback on written case reports. The focus on case analysis and writing skills will be highly valuable in students' professional

*Corequisite(s): Accounting 3131*

OR

*Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Equivalent: Management 4130 (prior to 2021/2022)*

**Note:** All prerequisite courses must have a minimum 'C-' grade.

## ACCOUNTING 4151

### Advanced Tax

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The objective of this course is to provide advanced exposure to the workings of the personal and corporate Canadian income tax systems. Emphasis is placed on applying, analyzing, synthesizing, and evaluating advanced concepts as they pertain to tax planning and decision making. Topics such as individual tax planning, corporate tax planning, corporate reorganizations, partnerships, business acquisitions and divestitures, business valuations, international business expansion, and employee compensation will be covered.

*Prerequisite(s): Accounting 3100 AND*

*Accounting 3151*

OR

*Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Equivalent: Management 4151 (prior to 2021/2022)*

**Note:** All prerequisite courses must have a minimum 'C-' grade.

## ACCOUNTING 4160

### Accounting Theory

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The study of theoretical constructs such as efficient markets, agency and economic consequences which impact the preparation and use of accounting information. Focus is on applying the theories to understand and analyze current issues in accounting practice. The course is designed to provide students with the opportunity to exercise and improve skills in critical thinking, persuasive writing and oral communication.

*Prerequisite(s): Accounting 3100 AND*

*One of Writing 1000,*

*English 1900, final grade of 80% or higher in AB high school*

*English Language Arts 30-1, or successful completion of a writing challenge test (see information found at*

*www.ulethbridge.ca/dhillon/advising-faqs)*

OR

*Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Corequisite(s): Economics 3030 AND*

*Accounting 3101 AND*

*Accounting 3160*

OR

*Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Equivalent: Management 4160 (prior to 2021/2022)*

**Note:** All prerequisite courses must have a minimum 'C-' grade.

## Addictions Counselling

(ADCS)

*Faculty of Health Sciences*

## ADDICTIONS COUNSELLING 1000

### Introduction to Addiction Studies

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Overview of the major concepts, theories, prevalence and issues concerning addictive behaviours and approaches for individual and community interventions.

*Lib Ed Req: Social Science*



### **ADDICTIONS COUNSELLING 1020** **Introduction to the Counselling Interview**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

An introduction to the basic concepts, skills and self-awareness required for interviewing and talking with individuals who are struggling with personal or professional problems. Approaches to individual and intercultural interviewing, including attending to behaviours and communication, use of questions, client observation, emotions and interview structure will be addressed.

*Prerequisite(s):* Admission to a program with a major in Aboriginal Health, Addictions Counselling, or Psychology

### **ADDICTIONS COUNSELLING 1220** **Counselling I (Individual Counselling)**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

Introduction to the theory and practice of counselling in general, and of individuals experiencing addiction and related problems.

*Prerequisite(s):* Addictions Counselling 1020 AND Admission to the B.H.Sc. program with a major in Addictions Counselling AND One of Psychology 1010 or Psychology 1020

### **ADDICTIONS COUNSELLING 2120** **Counselling II (Group Counselling)**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

Theories and techniques of counselling individuals and groups are examined. Lab work includes techniques for working with individuals and groups of addicted persons.

*Prerequisite(s):* Addictions Counselling 1220 AND Admission to the B.H.Sc. program with a major in Addictions Counselling

### **ADDICTIONS COUNSELLING 2140** **Drugs of Abuse**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course is an introduction to the use and effects of drugs of abuse. It covers the history of drug use, rates of drug consumption in North America, basic drug processes and bodily responses, an introduction to epigenetics, addiction across the life span, drug policies, and a brief survey of various drugs of abuse; legal, illicit, and prescription medication. It briefly covers the treatment of addiction and drugs as therapeutics.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Equivalent:* Health Sciences 2850 (Drugs of Abuse) (prior to 2017/2018)

### **ADDICTIONS COUNSELLING 2235** **Indigenous Perspectives on Counselling and Wellness**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to counselling with First Nations populations. First Nations issues as well as specific mainstream and traditional counselling approaches will be explored.

*Prerequisite(s):* Addictions Counselling 1020

### **ADDICTIONS COUNSELLING 2245** **Assessment of Addictions**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course will provide students with the necessary knowledge and skills to identify and understand individuals with needs related to addictions and plan interventions in partnership with the client.

*Prerequisite(s):* Addictions Counselling 1220 AND Second-year standing (a minimum of 30.0 credit hours)

### **ADDICTIONS COUNSELLING 2275** **Trauma in Addictions Counselling**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An exploration of the experience of unresolved psychological trauma as a significant underlying factor in the genesis of addictions. The particular focus of study considers life span issues, populations, counselling concerns and application of treatment models.

*Prerequisite(s):* Addictions Counselling 1220 AND

Admission to the Addictions Counselling major AND Second-year standing (a minimum of 30 credit hours)

*Equivalent:* Addictions Counselling 3739 (Traumatized Populations and Addictions), Addictions Counselling 3729 (Trauma and Addictions) (prior to 2020-2021)

### **ADDICTIONS COUNSELLING 3002** **Health Education and Promotion**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An ecological examination of the epidemiological, social, cultural, economic and policy contexts of addictions and health. Theories, models, skills and strategies pertaining to individuals, groups and populations for health education, promotion, and prevention will be explored.

*Prerequisite(s):* Addictions Counselling 1020 OR Second-year standing (a minimum of 30.0 credit hours)

*Mutually Exclusive:* Health Sciences 3002; Nursing 3020; Nursing 3021

*Substantially Similar:* Health Sciences 3002; Nursing 3020; Nursing 3021

*Lib Ed Req:* Social Science

### **ADDICTIONS COUNSELLING 3050 Internship in Addictions Counselling I**

*Credit hours: 15.00*

*Contact hours per week: 3-0-32*

Students observe and participate in the practice of addictions counselling in a fieldwork experience. Weekly seminars facilitate the integration of theory, practice and research.

*Prerequisite(s): Addictions Counselling 2245  
AND*

*Addictions Counselling 3120*

*AND*

*Addictions Counselling 3130*

*AND*

*Addictions Counselling 3140*

*AND*

*Addictions Counselling 3150*

*AND*

*Addictions Counselling 3240*

*AND*

*Addictions Counselling 3260*

*AND*

*Addictions Counselling 3420*

*AND*

*Addictions Counselling 4200*

*OR*

*Addictions Counselling 3120*

*AND*

*Admission to the Addictions  
Counselling major of the post-  
diploma B.H.Sc. program*

*Equivalent: Addictions Counselling 2050  
(prior to 2020/2021)*

*Grading: Pass/Fail*

### **ADDICTIONS COUNSELLING 3120 Counselling III (Family Counselling)**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

Theories and techniques of counselling families who are struggling with problems of addictions are examined. Practical work focuses on further development of counselling skills as applied to families.

*Prerequisite(s): Addictions Counselling 2120  
AND*

*Third-year standing (a  
minimum of 60.0 credit hours)*

### **ADDICTIONS COUNSELLING 3130 Diversity and Counselling**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Cross-cultural perspectives on substance use and abuse, gambling, eating disorders and other behaviours considered 'addictive' in Western society and implications for developing helping relationships and culturally appropriate programs.

*Prerequisite(s): Third-year standing (a  
minimum of 60.0 credit hours)*

### **ADDICTIONS COUNSELLING 3140 Behavioural Pharmacology**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An examination of the behavioural and physiological effects of drugs as well as the neurological and pharmacological mechanisms by which they have their effects.

*Prerequisite(s): Addictions Counselling 2140*

### **ADDICTIONS COUNSELLING 3240 Concurrent Disorders**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Current issues relating to addictions, mental health and the interrelationships between the two. The particular focus will be dependent upon the interests of students, faculty and items of current societal interest.

*Prerequisite(s): Addictions Counselling 2140  
AND*

*Admission to the Addictions  
Counselling major*

### **ADDICTIONS COUNSELLING 3260 Research in Addictions**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to the concepts and methods of scientific investigation applied to addictions research in preparation for evidence-based practice.

*Prerequisite(s): Third-year standing (a  
minimum of 60.0 credit hours)  
in the Faculty of Health  
Sciences*

*Substantially Similar:*

*Health Sciences 3260;*

*Nursing 3360*

### **ADDICTIONS COUNSELLING 3420 Ethics in Addictions Counselling**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Legal, ethical and professional issues in counselling practice will be examined utilizing a case study approach.

*Prerequisite(s): One of Addictions  
Counselling 1220,  
Philosophy 1000, or admission  
to the Post-Diploma B.H.Sc.  
program with a major in  
Addictions Counselling*

### **ADDICTIONS COUNSELLING 4050 Internship in Addictions Counselling II**

*Credit hours: 15.00*

*Contact hours per week: 3-0-32*

Students participate, at an advanced level, in the practice of addictions counselling in a fieldwork setting. Seminars facilitate the integration of theory, practice and research.

*Prerequisite(s): Addictions Counselling 3050  
AND*

*Admission to the B.H.Sc.*

*program with a major in*

*Addictions Counselling*

*OR*

*Addictions Counselling 3120*

*AND*

*Admission to the Post-Diploma*

*B.H.Sc. program with a major*

*in Addictions Counselling*

*Grading: Pass/Fail*

### **ADDICTIONS COUNSELLING 4200 Community Development and Outreach**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Theory and practice of community development applied to planning, implementation and evaluation of community-level outreach and strategies to address addictions and related problems.

*Prerequisite(s): Third-year standing (a  
minimum of 60.0 credit hours)  
in the Faculty of Health  
Sciences*

*OR*

*Third-year standing (a  
minimum of 60.0 credit hours)  
in the Bachelor of Management  
(Population Health minor)*

## **Agricultural Biotechnology (AGBT)** **Faculty of Arts and Science**

### **AGRICULTURAL BIOTECHNOLOGY 4995**

#### **Undergraduate Thesis**

*Credit hours: 6.00*

*Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours)  
**AND**  
A cumulative GPA of 3.30 or higher

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

## **Agricultural Enterprise Management (AGEM)** **Dhillon School of Business**

### **AGRICULTURAL ENTERPRISE MANAGEMENT 2600**

#### **Business of Agriculture**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The area of agribusiness is a dynamic, varied and comprehensive field. This course provides a preliminary foundation for learning principles of management in the vast area of agricultural enterprise. The course will focus on the scope, function and tasks of the management of agricultural enterprises. How functional areas of management are integrated into enterprise operations will also be explored. Overall the course seeks to familiarize students with management aspects of agricultural enterprises that will provide a comprehensive view of this major sector of the economy.

*Prerequisite(s):* One of Management 1000 or Management 1500

*Equivalent:* Management 2600 (prior to 2021/2022);  
Management 2850  
(Introduction to Agricultural Enterprise Management) (prior to 2018/2019)

### **AGRICULTURAL ENTERPRISE MANAGEMENT 2610**

#### **Legal Aspects of Agriculture**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course covers the legal framework impinging upon decision making of farm business including farm ownership and transfer, taxation, business organization, losses, and regulation of land and water uses. Aboriginal land and agricultural issues are also emphasized.

*Prerequisite(s):* Agricultural Enterprise Management 2600

*Equivalent:* Management 2610 (prior to 2021/2022)

### **AGRICULTURAL ENTERPRISE MANAGEMENT 3275**

#### **Agricultural Marketing and Sales**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course examines the key marketing functions involved in the movement of farm and agricultural products from producers to consumers. Issues related to pricing, distribution, positioning and competitive analysis are considered, among others. Strategic marketing, planning, and selling strategies are addressed as well as the importance of the customer. Particular attention is paid to the factors that set agricultural marketing apart from other typical marketing scenarios.

*Prerequisite(s):* Marketing 2020 AND  
Agricultural Enterprise Management 2600

*Equivalent:* Management 3275 (prior to 2021/2022);  
Management 3850  
(Agricultural Marketing and Sales) (prior to 2018/2019)

### **AGRICULTURAL ENTERPRISE MANAGEMENT 3475/ FINANCE 3475**

#### **Agricultural Finance and Markets**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Financing and business performance of agricultural operations and markets. Credit analysis and requirements, loan pricing, farm grants, and the Canadian Agricultural Loans Act program. Organization and operating principles of agricultural commodity markets, including hedging strategies and risk management.

*Prerequisite(s):* One of Agricultural Enterprise Management 2600 or Finance 3040

*Equivalent:* Management 3475 (prior to 2021/2022);  
Management 3850  
(Agricultural Finance and Markets) (prior to 2018/2019)

### **AGRICULTURAL ENTERPRISE MANAGEMENT 3485**

#### **Applied Risk Management in Agriculture**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Structures, principles, pricing of agricultural commodity options, and futures markets. Emphasis is placed on the hedging, speculative and arbitrage strategies in the agricultural options, futures and swaps markets to management risk that arise due to uncertainty in the market.

*Equivalent:* Management 3485 (prior to 2021/2022)

### **AGRICULTURAL ENTERPRISE MANAGEMENT 3625**

#### **Canadian and World Agriculture**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course points out contentious debates in the agricultural sector, Canada's position and policies in these debates and their impact on the sector's welfare, as well as its integration and competitiveness in the international market.

*Prerequisite(s):* Economics 1010

*Equivalent:* Management 3625 (prior to 2021/2022);  
Management 3850 (Canadian and World Agriculture) (prior to 2018/2019)

**AGRICULTURAL ENTERPRISE MANAGEMENT 3635****International Trade***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course covers the principles of international trade. Class discussions will be centred around trade theories, gains from trade, and free trade versus protectionism. Other topics covered are fair trade and the movement of labour and capital. Due to the unique characteristics of the agricultural industry the application of these topics in this industry will be covered as well.

*Equivalent: Management 3635 (prior to 2021/2022)*

**AGRICULTURAL ENTERPRISE MANAGEMENT 4125/ ACCOUNTING 4125****Accounting and Agricultural Enterprises***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines the issues distinct to financial and managerial accounting and taxation for agri-business. Topics include financial reporting and measurement of biological assets and products; exploration of government assistance and related accounting issues; costing, control, and valuation challenges related to agricultural assets, particularly inventory; and taxation and succession planning. An overview of the audit process and related preparation may also be provided.

*Prerequisite(s): Accounting 2100 AND Accounting 2400  
OR  
Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Corequisite(s): Finance 3040  
OR  
Admission to the Post-Bachelor Certificate in Advanced Accounting*

*Equivalent: Management 4125 (prior to 2021/2022)*

**AGRICULTURAL ENTERPRISE MANAGEMENT 4615****Sustainable Agriculture and Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course introduces the three components of agricultural sustainability (ecological, economic and social/institutional) and their interactions with different levels of influence: farm and field, community, national and international. Students gain a deeper understanding of the interface of agricultural management decisions with the environment, in our broad efforts to produce food, feed and fibre for a rapidly expanding population, in dramatically shifting climates. Historical and current practices are assessed based on evidence demonstrating strengths and weaknesses.

*Prerequisite(s): Agricultural Enterprise Management 2600*

*Equivalent: Management 4615 (prior to 2021/2022)*

**AGRICULTURAL ENTERPRISE MANAGEMENT 4625****Issues in Agricultural Business***Credit hours: 3.00**Contact hours per week: 3-0-0*

This is a case-based course that covers current topics related to agricultural and agribusiness management, including, but not limited to NAFTA and cooperatives.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours)*

*Equivalent: Management 4625 (prior to 2021/2022)*

---

**Agricultural Studies (AGST)**  
**Faculty of Arts and Science**


---

**AGRICULTURAL STUDIES 1000**  
**The Evolution of Agriculture***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of the major achievements in agriculture, spanning its origins until the present. Particular emphasis on agricultural-related activities in Europe and North America. The role of Indigenous peoples and women in agriculture, world food issues, and the environmental consequences of modern agriculture.

*Lib Ed Req: Fine Arts and Humanities*

**AGRICULTURAL STUDIES 3300**  
**Modelling of Agricultural Systems***Credit hours: 3.00**Contact hours per week: 3-2-0*

Modelling biological, economic, social and ecological components of agricultural systems. The quantitative methods of economic analysis of agricultural systems are introduced. Application of linear algebra and linear programming to farm management problems. Use of computer software.

*Prerequisite(s): Economics 1010 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Science or Social Science*

**AGRICULTURAL STUDIES 3999**  
**Collaborative Registration Placeholder***Credit hours: 0.00*

This is a placeholder registration for students admitted to the Bachelor of Arts (B.A.) or Bachelor of Science (B.Sc.) with a major in Agricultural Studies who are enrolled in the Technical Studies Term at an associated college.

**Note:** No fees are assessed for this registration.

**AGRICULTURAL STUDIES 4000**  
**Seminar in Agricultural Issues***Credit hours: 3.00**Contact hours per week: 3-0-0*

Capstone seminars in agricultural issues. Offerings may include guest lectures from prominent administrators and researchers in agriculture, field trips, readings and papers.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**AGRICULTURAL STUDIES 4300**  
**Advanced Modelling of Agricultural Systems***Credit hours: 3.00**Contact hours per week: 3-2-0*

Applied decision analysis with an agricultural focus. Mathematical techniques for solving optimization and constrained optimization problems in agriculture: linear programming, quadratic programming, integer programming, dynamic programming and simulation. Case studies.

*Prerequisite(s): Agricultural Studies 3300*

*Lib Ed Req: Science or Social Science*

**AGRICULTURAL STUDIES 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours)  
AND  
A cumulative GPA of 3.30 or higher

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

---

**Anthropology (ANTH)**  
**Faculty of Arts and Science**


---

**ANTHROPOLOGY 0520****The Anthropological Imagination***Credit hours: 3.00**Contact hours per week: 3-0-0*

The concept of culture as an analytical tool for understanding human diversity. The basic building blocks of cultural anthropology including kinship, marriage, the family, religion and myth, law and politics, and subsistence and economics, among others. Ethnographic data from all parts of the world.

*Prerequisite(s):* Admission to the Indigenous Student Success Cohort

*Equivalent:* Anthropology 0500 (prior to 2016/2017)

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 1000****The Anthropological Perspective***Credit hours: 3.00**Contact hours per week: 3-0-0*

Comparative study of society and culture. Overview of the methods and theoretical orientations used by anthropologists to understand and explain human diversity. Examination of the material, social and cultural conditions of human behaviour and life from a local and global perspective.

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 2020****Indigeneity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the legal and cultural construction of what it means to be Indigenous in historical and contemporary cross-cultural contexts. Taking as a starting point that indigeneity is simultaneously constructed globally and locally, the course will examine diverse themes, including the politics of Indigenous recognition; Indigenous cosmopolitics; indigenous social movements; and questions of performing indigeneity, "authenticity" and predicaments of Indigenous political, social, and economic empowerment.

*Prerequisite(s):* Anthropology 1000

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 2110****The Anthropology of Popular Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

A critical introduction to anthropological approaches to popular culture with a focus on the way culture is produced and contested in specific ethnographic and historical contexts. Culture as the prime site of struggle; the place of mass media, music, film, religion, race, material culture and related issues may be considered.

*Prerequisite(s):* One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 2150****Anthropology of Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of development from an anthropological and cross-cultural perspective. Policies and practices of development and their relationship to notions of modernity, progress, neocolonialism, and the environment. The shared history of anthropology and development, both in theoretical and practical terms, situating the contributions of anthropologists in the critical examination of the development enterprise and as development practitioners. Various "alternative" approaches to development, such as gender and development, sustainable development, and fair trade.

*Prerequisite(s):* Anthropology 1000

*Equivalent:* Anthropology 2850 (Anthropology of Development) (prior to 2018/2019)

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 2200****The Ethnographic Imagination***Credit hours: 3.00**Contact hours per week: 3-0-0*

A thematic course that highlights issues in anthropology related to ethnography. Ethnographic practice and writing as social science and as literature. Classic and contemporary ethnographies.

*Prerequisite(s):* One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 2210****Cultures of the World (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

A broad introduction to a culture area or region of the world from an anthropological perspective.

*Prerequisite(s):* Anthropology 1000

*Substantially Similar:*

Any offering in the Anthropology 3100 Series with the same title as the offering in the Anthropology 2210 Series

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 2320****Ancient Societies***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of a diversity of ancient societies including Aztec, Maya and Inka. Comparison of political institutions, economic structures and religious ideologies of ancient polities. Anthropological theories on the emergence and transformation of centralized political hierarchy.

*Prerequisite(s):* One of Anthropology 1000, a previous course (3.0 credit hours) in Anthropology, or Archaeology 1000

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 2410****Anthropological Approaches to Prehistory***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to anthropological archaeology emphasizing the prehistory of the New World. Overview of the methods and approaches used to reconstruct ancient social dynamics through the analysis of material culture. Issues related to interpretation, heritage, and the politics of the past.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 2510****Language, Culture, and Communication***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to linguistic anthropology considering theories and methods which focus on the relationship between language, culture, and social/political contexts. Universal and particular aspects of language as a defining human attribute, the nature of the ethnography of communication, and language in relation to issues such as gender, race, ethnicity, nationalism and class.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 2550****Anthropology of Religion***Credit hours: 3.00**Contact hours per week: 3-0-0*

Anthropological theories and approaches to the study of ritual, religion, and ideology in a cross-cultural framework.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology or Religious Studies*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 2600****Anthropology of Gender***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to anthropological analyses of gender. Topics include the social and cultural construction of gender, gender inequality, sexuality, and masculinity and femininity.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 2710****Introduction to Environmental Anthropology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theoretical explorations of environmental anthropology from the mid-20th century onwards, tracing disciplinary and epistemological branches to help us better understand the role of culture in past and contemporary human-environment relations.

*Prerequisite(s): Anthropology 1000*

*Equivalent: Anthropology 2850 (Introduction to Environmental Anthropology) (prior to 2018/2019)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3000****Anthropological Thought***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the ideas that have shaped the discipline. Draws on a range of approaches, from classic to contemporary thought, to consider significant theories, concepts, and practices in anthropology.

*Prerequisite(s): One of Anthropology 2210, Anthropology 2410, or Anthropology 2510 AND One additional course (3.0 credit hours) in Anthropology at the 2000 level or higher*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3010****Methods, Knowledge, and Ethics***Credit hours: 3.00**Contact hours per week: 3-0-0*

The variety of methods and settings of anthropological research. The relationships between methodology and the production of anthropological knowledge. Shifting ethical concerns that relate to diverse power configurations between anthropologists and anthropological subjects.

*Prerequisite(s): One of Anthropology 2210, Anthropology 2410, or Anthropology 2510 AND One additional course (3.0 credit hours) in Anthropology at the 2000 level or higher*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3115****Anthropology of Environmental Conflict and Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

The role of cultural analysis in understanding the interrelated complexities of both managing natural landscapes and dealing with crisis and conflict within them. Environmental justice, climate change, conservation, natural disasters.

*Prerequisite(s): Anthropology 1000 AND Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Anthropology 3850 (Anthropology of Environmental Conflict and Management) (prior to 2018/2019)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3200****Power and Discourse***Credit hours: 3.00**Contact hours per week: 3-0-0*

Various theoretical approaches to power and language will be explored in relation to specific ethnographic contexts.

*Prerequisite(s): One of Anthropology 2210, Anthropology 2410, or Anthropology 2510 AND One additional course (3.0 credit hours) in Anthropology at the 2000 level or higher*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3280****Urban Anthropology***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the methods and theoretical orientations used by anthropologists to understand and explain contemporary and historical urban processes. The comparative and ethnographic study of cities as centres of social and cultural complexity where global, national, and local processes intersect.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3300****Gifts and Commodities***Credit hours: 3.00**Contact hours per week: 3-0-0*

The anthropological study of economic processes of production, consumption, distribution and exchange in ethnographic contexts.

*Prerequisite(s): One of Anthropology 2210, Anthropology 2410, or Anthropology 2510 AND One additional course (3.0 credit hours) in Anthropology at the 2000 level or higher*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3310****Race and Ethnicity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Recent developments in anthropological theory and ethnography. Comparative analysis of race and ethnicity as social and cultural forms of inequality both historically and in contemporary society.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3400****Origins of Inequality***Credit hours: 3.00**Contact hours per week: 3-0-0*

Critical appraisal of theories proposed to interpret the origins of human inequality and the social and political structures found in egalitarian communities, middle-range societies and ancient states. Focuses on the dynamics of sociocultural evolution by studying selected archaeological and ethnographic case studies.

*Prerequisite(s): Anthropology 2410*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3450****Historical Ecology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of human-nature relatedness as it unfolds over prolonged timespans and the way anthropogenic landscapes and other forms of human intervention serve as a context for examining the mutual constitution of culture, technology, and social institutions.

*Prerequisite(s): Anthropology 1000 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3500****Ritual, Practice, and Performance***Credit hours: 3.00**Contact hours per week: 3-0-0*

Intensive investigation of anthropological theories of ritual, ceremony and performance. Consideration of ethnographic and historical case studies.

*Prerequisite(s): One of Anthropology 1000 or Religious Studies 2001 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3520****Medical Anthropology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Anthropological approaches for understanding health and medicine in society and culture.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3610****Material Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

The role of material culture in the production, reproduction, and performance of social relations. Case studies will illustrate anthropological theories on material culture, particularly its importance in constructing and contesting gender, class, political authority and colonialism.

*Prerequisite(s): One of Anthropology 1000 or a previous course (3.0 credit hours) in Anthropology AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3630****Anthropology of Food***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of food at the juncture of the material and the symbolic. The cultural construction of food experience and how practices of food production, circulation, and consumption speak to larger cultural and political issues.

*Prerequisite(s): Anthropology 1000 AND Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Anthropology 3900 (The Anthropology of Food) (prior to 2018/2019)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3720****Place and Space***Credit hours: 3.00**Contact hours per week: 3-0-0*

A consideration of the cross-cultural shaping of the use and perception of space and the role of place in shaping culture, including the cultural implications of how people create, move within, and assign value to the spaces around them.

*Prerequisite(s): Anthropology 1000 AND Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Anthropology 3900 (The Anthropology of Space and Place) (prior to 2018/2019)*

*Lib Ed Req: Social Science*

**ANTHROPOLOGY 3840****Anthropology of Policy and Governance***Credit hours: 3.00**Contact hours per week: 3-0-0*

Anthropological approaches to governance, with particular emphasis on policy, in both the narrow sense of government programs and the wider sense of charters for social perception and action. Situating policy as artifact and architect of culture – as simultaneously reflective and productive of particular cultural formations – the course will focus on one or more substantive themes, such as the environment, social welfare, development, medicine, language, identity, migration, the judiciary, etc. Governance as a practice of meaning making marked by power struggles.

*Prerequisite(s):* Anthropology 1000 AND Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 3900****Social and Cultural Organization (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced study of the social and cultural organization in societies of varying complexity.

*Prerequisite(s):* One of Anthropology 2210, Anthropology 2410, or Anthropology 2510 AND One additional course (3.0 credit hours) in Anthropology at the 2000 level or higher

*Lib Ed Req:* Social Science

**ANTHROPOLOGY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct fieldwork, text or library-based research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.30 or higher AND A minimum of eight courses (24.0 credit hours) in Anthropology

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Applied Studies****(APST)****Faculty of Arts and Science****APPLIED STUDIES 2000****Field Experience I***Credit hours: 3.00**Other hours per term: 0-0-120*

An opportunity to earn academic credit for learning gained through employment or volunteer experiences related to the student's field of study. Credit is earned for successful completion of 120 placement hours, an employer evaluation, and written assignments.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours) AND A cumulative GPA of 2.00 or higher AND Permission of the Applied Studies Coordinator

*Grading:* Pass/Fail

**APPLIED STUDIES 2001****Field Experience II***Credit hours: 3.00**Other hours per term: 0-0-120*

An opportunity to earn academic credit for learning gained through employment or volunteer experiences related to the student's field of study. Credit is earned for successful completion of 120 placement hours, an employer evaluation, and written assignments.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours) AND A cumulative GPA of 2.00 or higher AND Applied Studies 2000 AND Permission of the Applied Studies Coordinator

*Grading:* Pass/Fail

**APPLIED STUDIES 2010****Field Experience Evaluation I***Credit hours: 3.00*

Completion of a Learning Plan and a project or paper, in which a particular aspect of the placement is considered within an academic context. Consultation of relevant literature and relation of theoretical concepts to the practical experience are required.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours) AND A cumulative GPA of 2.00 or higher AND Permission of the Applied Studies Coordinator

*Corequisite(s):* Applied Studies 2000 or completion of 120 placement hours

**APPLIED STUDIES 2011****Field Experience Evaluation II***Credit hours: 3.00*

Completion of a Learning Plan and a project or paper, in which a particular aspect of the placement is considered within an academic context. Consultation of relevant literature and relation of theoretical concepts to the practical experience are required.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours) AND A cumulative GPA of 2.00 or higher AND Applied Studies 2010 AND Permission of the Applied Studies Coordinator

*Corequisite(s):* Applied Studies 2001 or completion of 120 placement hours



## Archaeology (ARKY) Faculty of Arts and Science

### ARCHAEOLOGY 1000

#### Introduction to Archaeology

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The basic concepts of archaeology and archaeological research. Using examples from around the world, emphasis will be placed on understanding fundamental principles and techniques employed in archaeological problem solving. Material covered will include dating and excavation methodologies, material and artifact analysis, culture-environment interaction and critical evaluation of archaeological interpretation.

*Lib Ed Req: Science or Social Science*

### ARCHAEOLOGY 2610

#### Old World Archaeology

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A survey of major cultural developments in Africa, Asia, and Europe from the origins of agriculture and development of complex civilizations through to the advent of the medieval era.

*Prerequisite(s): Archaeology 1000*

*Lib Ed Req: Social Science*

### ARCHAEOLOGY 3000

#### Archaeological Science (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology*

*Lib Ed Req: Science*

### ARCHAEOLOGY 3110

#### Archaeology of North America

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Other hours per term: 0-0-8*

Major issues in the archaeology of North America including population movements during the Pleistocene and the development of regional adaptations. A one-day field trip will be scheduled on a Saturday.

*Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology*

*Lib Ed Req: Social Science*

### ARCHAEOLOGY 3120

#### Plains Archaeology

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Other hours per term: 0-0-8*

An examination of the human history of the North American Great Plains from the earliest known occupation to the arrival of Europeans. Emphasis on interpretation and analysis of Plains material culture and the application of techniques such as lithic studies, zooarchaeology and ethnoarchaeology. A field trip will be scheduled.

*Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology*

*Lib Ed Req: Social Science*

### ARCHAEOLOGY 3170

#### Syro-Palestinian Archaeology

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The growth and development of the discipline of Syro-Palestinian Archaeology in a general survey of exploration, excavation and scholarly research; and an examination of the archaeological evidence from prehistoric times to the end of the Iron Age.

*Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology*

*Lib Ed Req: Social Science*

### ARCHAEOLOGY 3171

#### Ancient Israel

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Major issues and problems in the archaeology of Iron Age Israel and its environs, including Israelite origins, the nature of the Israelite state, and the material culture of Ancient Israel and its neighbours.

*Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology*

*Lib Ed Req: Social Science*

### ARCHAEOLOGY 3300

#### Archaeological Field Work (Series)

*Credit hours: 3.00*

*Other hours per term: 0-0-210*

Training in excavation techniques, principles and problems on location at various archaeological sites around the world. Inasmuch as this course involves travel to and residence at remote archaeological sites, costs borne by students vary but may range up to several thousand dollars.

*Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology AND Application to the department*

*Lib Ed Req: Science*

### ARCHAEOLOGY 3400

#### Archaeological Regions, Periods, and Themes (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This series explores archaeological issues from different regions and periods.

*Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology*

*Equivalent: Any offering in the Archaeology 3000 Series with the same title as the offering in the Archaeology 3400 Series*

### ARCHAEOLOGY 3600/LIBERAL EDUCATION 3600

#### Human Evolution

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Theories and major developments in the study of human evolution. Examination of hominid fossils and stone tools in order to understand human biological and cultural development. Contributions made by various disciplines to this research area are reviewed.

*Prerequisite(s): One of Archaeology 1000, a previous course (3.0 credit hours) in Archaeology, or Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Science*

**ARCHAEOLOGY 3700****Geoarchaeology and Landscape Analysis***Credit hours: 3.00**Contact hours per week: 3-3-0**Other hours per term: 0-0-16*

Site formation processes, both natural and cultural; ancient and modern landscapes; analysis of archaeological features in geoarchaeological contexts. Two one-day field trips will be scheduled on Saturdays.

*Prerequisite(s):* One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology

*Lib Ed Req:* Science

**ARCHAEOLOGY 3720****Archaeological Materials Analysis***Credit hours: 3.00**Contact hours per week: 3-3-0*

Laboratory analysis of archaeological remains such as lithic artifacts, groundstones, ceramics, faunal remains, shell and bone artifacts, perishables, botanical remains, and historical artifacts.

*Prerequisite(s):* One course (3.0 credit hours) in Archaeology at the 3000 level

*Lib Ed Req:* Science

**ARCHAEOLOGY 4000****Advanced Archaeological Science (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s):* One 3000-level course (3.0 credit hours) in Archaeology

*Lib Ed Req:* Science

**ARCHAEOLOGY 4100****Advanced Archaeological Theory (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series examines the influence of theory in Archaeology.

*Prerequisite(s):* Two 3000-level courses (6.0 credit hours) in Archaeology

**ARCHAEOLOGY 4500****Advanced New and Old World Archaeology (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected problems relating archaeological theory, analyses, and/or field work.

*Prerequisite(s):* One 3000-level course (3.0 credit hours) in Archaeology

*Lib Ed Req:* Science or Social Science

**ARCHAEOLOGY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with the Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.30 or higher AND

An Independent Study (3990) in Archaeology or Geography

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Art****(ART)****Faculty of Fine Arts****ART 2005****Print Studio (Without a Press)***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This course provides an introduction to the fundamentals of printmaking without a press. Students explore concepts, materials, tools, and processes such as woodblock, linocut, and silkscreen.

*Equivalent:* Art 3005 (prior to 2022/2023)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** For sections where Art 2005 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 2006****Print Studio (With a Press)***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This course provides an introduction to the fundamentals of printmaking without a press. Students explore concepts, materials, tools, and processes such as monotype, pouchoir, stencil, and intaglio.

*Equivalent:* Art 3006 (prior to 2022/2023)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

For sections where Art 2006 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 2010****Drawing Studio I***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This course provides an introduction to the fundamentals of drawing. Students explore the principles, practices, vocabularies, tools, materials and methods of drawing within the context of contemporary art.

*Equivalent:* Art 2031 (prior to 2022/2023)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** For sections where Art 2010 is offered twice weekly, an extra hour is required per week for set up and clean up. Studio course.

**ART 2015****Art Studio (Series)***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

Thematic courses in contemporary art studio are offered on a rotating basis. Examples include: Artist Archives; Plein Air Painting; Performance Art; Installation Art; Digital Fabrication; Art, Ecology, Ethics; Handmade Cinema; Embodied Textiles; Clay Studio.

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio Course. For sections where Art 2015 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 2023****Painting Studio I***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This course provides an introduction to the fundamentals of painting. Students explore the principles, practices, vocabularies, materials, tools and methods of painting within the context of contemporary art.

*Corequisite(s):* Art 2010

*Equivalent:* Art 3022 (prior to 2022/2023)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** For sections where Art 2023 is offered twice weekly, an extra hour is required per week for set up and clean up. Studio course.

**ART 2027****Photography Studio I***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This course provides an introduction to the fundamentals of photography. Students explore light, camera obscura, pinhole and film cameras, black and white darkroom processes, analogue materials, digital capture and image processing, display technique and presentation design within the context of contemporary art and visual culture.

*Equivalent: Art 3026 (prior to 2022/2023)**Lib Ed Req: Fine Arts and Humanities*

**Note:** For sections where Art 2027 is offered twice weekly, an extra hour is required per week for set up and clean up. Studio course.

**ART 2033****Spatial Practice I***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This course provides an introduction to the fundamentals of three-dimensional form and space. Technical, aesthetic, material and theoretical issues are explored within the context of contemporary sculpture.

Diverse approaches to object-making are investigated through a range of hands-on assignments in materials such as clay, plaster, textiles, wood and found materials.

*Equivalent: Art 2032 (prior to 2022/2023)**Lib Ed Req: Fine Arts and Humanities*

**Note:** For sections where Art 2033 is offered twice weekly, an extra hour is required per week for set up and clean up. Studio course.

**ART 2060****Media Arts (Digital Sketchbook)***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This course provides an introduction to media arts. Concepts, processes, and technical skills required for creating a range of digital and media projects in sound, still and moving images, and two- and three-dimensional design, are explored in relation to contemporary media spaces for art.

*Equivalent: Art 3060 (prior to 2022/2023)**Lib Ed Req: Fine Arts and Humanities*

**Note:** For sections where Art 2060 is offered twice weekly, an extra hour is required per week for set up and clean up. Studio course.

**ART 2061****Media Arts (Video Sketchbook)***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This course provides an introduction to video art. Concepts, processes, and technical skills required for creating video art, including the camera, lighting, editing, production and post-production technique are addressed. Screenings, readings and group discussions focus student projects as single and multi-channel, interdisciplinary, immersive and other spatialized video presentations.

*Equivalent: Art 3061 (prior to 2022/2023)**Lib Ed Req: Fine Arts and Humanities*

**Note:** For sections where Art 2061 is offered twice weekly, an extra hour is required per week for set up and clean up. Studio course.

**ART 2350/INDIGENOUS STUDIES 2350****Indigenous Art Studio I***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This course provides an introduction to both traditional and contemporary forms of Indigenous creative and cultural practices, with a focus on the concepts, theories, and processes of contemporary Indigenous Art in North America. Topics include: assertions of Indigenous identity, truth and reconciliation, the colonial context in Canada, and connections to the land. Students will consider the critical intent of their work as it relates to current affairs and important cultural, social, and political issues. Students of all levels and backgrounds welcome.

*Equivalent: Art 2350/Native American Studies 2350 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

For sections where Art 2350/Indigenous Studies 2350 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3007****Print Studio III***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This advanced course supports independent and collaborative studies in printmaking. Traditional, experimental and interdisciplinary techniques and processes are explored.

*Prerequisite(s): One of Art 2005 or Art 2006 AND  
15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

For sections where Art 3007 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3010****Drawing Studio II***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This intermediate level course builds upon the fundamentals of drawing. Students further explore mark making, form, perception and description, image analysis, content development, methods of display and dissemination. Diverse approaches and media are investigated within the context of contemporary art.

*Prerequisite(s): Art 2010**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

For sections where Art 3010 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3011****Drawing Studio III***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This advanced course supports independent exploration in drawing and related practice. Drawing installation, embodied practice, scale, site, process, collaboration and duration are critically examined. Diverse materials and approaches to drawing are explored within the context of contemporary art.

*Prerequisite(s): Art 3010 AND*

*15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

For sections where Art 3011 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3015****Art Studio (Series)***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

Thematic courses in contemporary art studio are offered on a rotating basis. Examples include: Artist Archives; Plein Air Painting; Performance Art; Installation Art; Digital Fabrication; Art, Ecology, Ethics; Handmade Cinema; Embodied Textiles; Clay Studio.

**Prerequisite(s):** Four of: [Art 2005 or Art 2006], Art 2015, Art 2023, Art 2033, [Art 2060 or Art 2061], or Art 2350 AND 15 university-level courses (a minimum of 45.0 credit hours)

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

For sections where Art 3015 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3023****Painting Studio II***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This intermediate level course builds upon the fundamentals of painting. Students further explore colour, pictorial space, form, composition, image analysis, content development, and methods of display. Diverse approaches and media are investigated within the context of contemporary art.

**Prerequisite(s):** Art 2023**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

For sections where Art 3023 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3024****Painting Studio III***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This advanced course supports independent exploration in painting in the expanded field. Painting installation and painting as it extends to textiles, photography, objects and space are critically examined. Diverse approaches and media are explored within the context of contemporary art.

**Prerequisite(s):** Art 2023 AND

15 university-level courses (a minimum of 45.0 credit hours)

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

For sections where Art 3024 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3027****Photography Studio II***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This intermediate level course builds upon the fundamentals of photography. Students gain critical and practical skills in both analogue and digital photography including medium and large format film cameras, studio lighting, advanced film development and printing, digital capture and image processing, colour and Inkjet printing. Projects focus studio and field based activity for public display and dissemination.

**Prerequisite(s):** Art 2027**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

Film, digital and video cameras, tripods, and other equipment can be rented for a fee. Students are required to purchase photographic paper and film. Contact art studio technicians or your instructor for specifics.

**ART 3028****Photography Studio III***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This advanced course supports independent and collaborative projects in photo-based practice. Students gain critical insight into the aesthetic and cultural debates that inform their work while expanding their practical skills in both analogue and digital processes. Thematic workshops may include digital montage, computational photography, narrative, time-based media, non-silver processes, photo-essay, photo-installation, projection, publications, and public sphere. Collaborative and individual projects focus studio and field-based activity for public display and dissemination.

**Prerequisite(s):** Art 2027 AND

15 university-level courses (a minimum of 45.0 credit hours)

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

Film, digital and video cameras, tripods, and other equipment can be rented for a fee. Students are required to purchase photographic paper and film. Contact art studio technicians or your instructor for specifics.

**ART 3033****Spatial Practice II***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This intermediate level course builds upon the fundamentals of three-dimensional form and space. Students gain analytic, critical and practical skills in object making, fabrication, construction, installation design and display. Diverse processes, media and methods are explored within the context of contemporary sculpture and spatial practice.

**Prerequisite(s):** Art 2033**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

For sections where Art 3033 is offered twice weekly, an extra hour is required per week for set up and clean up.

**ART 3034****Spatial Practice III***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This advanced course supports exploration in contemporary sculpture and spatial practice. Installation design, site, process, digital and time-based media are critically examined through readings, visual presentations, field trips, discussions and hands-on production. Projects focus independent and collaborative activity for public display and dissemination. Students will respond to thematic assignments using an open choice of materials.

**Prerequisite(s):** Art 3033 AND*15 university-level courses (a minimum of 45.0 credit hours)***Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.*For sections where Art 3034 is offered twice weekly, an extra hour is required per week for set up and clean up.***ART 3035****Social Practice in Art***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This advanced studio course supports exploration in social practice in art. Working in the public sphere on individual and collaborative projects, students consider the intent and impact of their work on current cultural, social, ecological, ethical, and political issues. Approaches in artmaking as varied as urban interventions, performance art, time-based and interactive media, will be examined through readings, visual presentations, field trips, discussions and hands-on production. Students will engage with diverse communities in order to stimulate critical dialogue and social transformation.

**Prerequisite(s):** Four of: [Art 2005 or Art 2006], Art 2015, Art 2023, Art 2027, Art 2033, [Art 2060 or Art 2061], or Art 2350 AND  
*15 university-level courses (a minimum of 45.0 credit hours)*

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.*For sections where Art 3035 is offered twice weekly, an extra hour is required per week for set up and clean up.***ART 3062****Media Arts III***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This advanced course supports independent and collaborative projects in media arts. Time-based, performative, historical and emergent media are explored in the context of thematic workshops that may include alternative screens, apparatus design, creative electronics, kinetic art, media installation, print media, public sphere, radio, sensoria, sound, video, virtual and immersive environments. Applied and experimental approaches are supported alongside an examination of the histories and concepts of technology, communication, obsolescence and emerging media.

**Prerequisite(s):** One of Art 2060 or Art 2061, AND  
*15 university-level courses (a minimum of 45.0 credit hours)*

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.*For sections where Art 3062 is offered twice weekly, an extra hour is required per week for set up and clean up.***ART 3210****Architecture and Design NOW I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-10*

Aspects of recent and contemporary architecture and design introduced through a series of presentations by practicing architects, designers, architectural historians, critics and writers on design.

**Prerequisite(s):** Second-year standing (a minimum of 30.0 credit hours)

**Lib Ed Req:** Fine Arts and Humanities**Note:** Attendance requirement.**ART 3261****Art NOW***Credit hours: 3.00**Contact hours per week: 3-0-0*

Built upon a series of guest lectures by nationally and internationally recognized artists and art professionals, this course covers a wide range of current topics in contemporary art. Lecture presentations are supplemented by readings, visits to local art exhibitions and discussion.

**Prerequisite(s):** Second-year standing (a minimum of 30.0 credit hours)

**Lib Ed Req:** Fine Arts and Humanities**ART 3262****Art NOW***Credit hours: 3.00**Contact hours per week: 3-0-0*

Built upon a series of guest lectures by nationally and internationally recognized artists and art professionals, this course covers a wide range of current topics in contemporary art. Lecture presentations are supplemented by readings, visits to local art exhibitions and discussion.

**Prerequisite(s):** Second-year standing (a minimum of 30.0 credit hours)

**Lib Ed Req:** Fine Arts and Humanities**ART 3350/INDIGENOUS****STUDIES 3350****Indigenous Art Studio II***Credit hours: 3.00**Contact hours per week: 5-0-0 or  
6-0-0*

This advanced course is focused on both traditional and contemporary forms of Indigenous creative and cultural practices within a studio environment. Students will be expected to independently apply their conceptual, technical, and creative skills in the research and production of artistic projects in a range of disciplinary and interdisciplinary practices. Understanding that art making is linked with academic explorations, students will examine their artwork in relation to significant fields of contemporary thought, while focusing on specific themes introduced in this course.

**Prerequisite(s):** Art 2350/Indigenous Studies 2350

**Equivalent:** Art 3350/Native American Studies 3350 (prior to 2019/2020)

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.*For sections where Art 3350/Indigenous Studies 3350 is offered twice weekly, an extra hour is required per week for set up and clean up.*

## ART 3355/INDIGENOUS STUDIES 3355

### Landmarks

Credit hours: 3.00

Contact hours per week: 5-0-0 or 6-0-0

This course focuses on conceptual, technical and creative skills in the research and production of contemporary art projects. Students engage photo, video, drawing, spatial, performance, installation, and interdisciplinary practices. At its core, this course is about embodied storytelling, and the ways in which we might participate with the landscape while exploring our individual relationships with the living archive of a specific location, and its rich cultural histories.

Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)

Equivalent: Art 3850 (Landmarks) (prior to 2021/2022)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.

For sections where Art 3355/Indigenous Studies 3355 is offered twice weekly, an extra hour is required per week for set up and clean up.

## ART 4048 Senior Studio I

Credit hours: 6.00

Contact hours per week: 10-0-0

This double-credit course offers self-directed study focused on conceptual and material development in contemporary art practice. Students are provided individual studio space within a community of peers, access to studio facilities, technical support, instruction and critique.

Prerequisite(s): Four of: Art 3007, Art 3010, Art 3011, Art 3015, Art 3023, Art 3024, Art 3027, Art 3028, Art 3033, Art 3034, Art 3035, Art 3062, Art 3350, Art 3355

Corequisite(s): Art History 3001

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.

## ART 4049 Senior Studio II

Credit hours: 6.00

Contact hours per week: 10-0-0

Building on Senior Studio I, this double-credit course offers self-directed study focused on conceptual and material development in contemporary art practice. Students are provided individual studio space within a community of peers, access to studio facilities, technical support, instruction and critique.

Prerequisite(s): Art 4048

Corequisite(s): Art 4994

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.

## ART 4210 Architecture and Design NOW II

Credit hours: 3.00

Contact hours per week: 3-0-0

Other hours per term: 0-0-10

Discussion of principal discourses, ideas and ideologies generated since mid-century. Issues and debates related to the design profession in our time.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)

Lib Ed Req: Fine Arts and Humanities

**Note:** Attendance requirement.

## ART 4994 Professional Practice for Artists

Credit hours: 3.00

Contact hours per week: 3-0-0

This seminar/studio course offers senior art students a comprehensive survey of professional practice in the visual arts. Through assignments, workshops, guest lectures and gallery visits, students are guided through a range of practical activities such as creating a digital portfolio, preparing a CV, writing artist statements, and developing proposals suitable for exhibitions, grants, residencies, and publications. Students will consider community development and social networking, identify research goals, and formulate strategies for dissemination of art production.

Prerequisite(s): Four of: Art 3007, Art 3010, Art 3011, Art 3015, Art 3023, Art 3024, Art 3027, Art 3028, Art 3033, Art 3034, Art 3035, Art 3062, Art 3350, or Art 3355

Corequisite(s): ARHI 3001

Lib Ed Req: Fine Arts and Humanities

## ART 4995 Undergraduate Thesis

Credit hours: 6.00

Contact hours per week: 10-0-0

A studio course in which students research and produce a body of work. Public presentation of the project, an expanded artist statement, and an oral presentation are required. In consultation with their Studio Supervisor, students will define and produce a project and formulate a presentation plan.

Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.30 or higher AND

Art 4049 AND

Art 4994 AND

Application to the Department of Art

**Note:** Studio course.

Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

## Art History Faculty of Fine Arts

(ARHI)

## ART HISTORY 1001 World Art Before 1400

Credit hours: 3.00

Contact hours per week: 3-0-0

This course examines a broad range of art, architecture, and material culture from prehistory to 1400. Students will learn to analyze and understand art from different time periods and cultural traditions by analyzing the visual culture of diverse groups and will consider issues such as the representations of authority and power, cultural identity, and cultural exchange. We will examine art from diverse cultures including the prehistoric world, Greece, the Islamic world, the Americas, Asia, and Europe.

Equivalent: Art History/Museum Studies 2225 (prior to 2016/2017);

Art History 2225 (prior to 2020/2021)

Lib Ed Req: Fine Arts and Humanities

**ART HISTORY 1002****World Art Since 1400***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines art, architecture, and material culture from 1400 through to the mid-twentieth century with a focus on the development, diversity, and interaction of art and cultural traditions globally. Taking a comparative approach, this course will explore the relationship of cultural expression to globalization, colonialism, power, and social change. Understanding how audiences engaged with these cultural forms and considering how global political and cultural exchange has shaped visual culture may help develop critical analysis skills that are valuable in today's image-saturated world.

*Equivalent:* Art History/Museum Studies 1000 (prior to 2016/2017);  
Art History 1000 (prior to 2020/2021)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 2255****Art and Culture (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings in subject areas dealing with the interactions and relationships between art and culture.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Equivalent:* Art History/Museum Studies 2255 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3001****Theory and Methods in Art and Art History***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines various theoretical and interpretative methodologies for the study of art, art history, visual and material culture. Approaches may include: philosophical aesthetics, formalism, semiotics, hermeneutics, Marxism, feminism, postcolonial and decolonial theories, post-structuralism, phenomenology, psychoanalysis, queer theory, and global studies. The class will involve close readings of theoretical texts with the aim of empowering students to determine which methods and theories are best suited to their own research and artistic interests.

*Prerequisite(s):* Art History 1002 and 15 university-level courses (a minimum of 45.0 credit hours)

*Equivalent:* Art History 2001 (prior to 2019/2020) and Art History/Museum Studies 2001 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3151****Art History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings in subject areas dealing with significant developments in art history.

*Prerequisite(s):* Art History 1002 or Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Art History/Museum Studies 3151 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3152****Indigenous Art History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Rotating topics in the study of Indigenous art and art history.

*Prerequisite(s):* One of Art History 1001, Art History 1002, or Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Art History 3151 (Critical Issues in Contemporary Indigenous Art History) (prior to 2019/2020) is equivalent to the same titled offering in the Art History 3152 Series; Art History 3250 (Northwest Coast Art) (prior to 2019/2020) is equivalent to the same titled offering in the Art History 3152 Series

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3200****Issues in 19th-Century Art and Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

An in-depth consideration of selected topics in art and culture of the long nineteenth century. Topics will vary but may include the changing culture of display from Salon to World's Fair; changing patterns of tourism and its effects on the art world; the effect on art production of changing gender norms, political structures or cultural values.

*Prerequisite(s):* Art History 1002 AND One of Art History 1001 or 15 university-level courses (a minimum of 45.0 credit hours)

*Equivalent:* Art History/Museum Studies 3200 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3215****20th-Century Art History to 1945***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of early 20th-century modern art until World War II. The development of philosophical and formalist abstract painting, sculpture and environments will be considered along with innovations in collage, photomontage, photography, avant-garde cinema and experimental literature. Primitivism's links to colonialism are examined, as are widespread interests in psychoanalysis and esoteric spirituality. Utopian and politically engaged art is compared with the emerging totalitarian art practices of the mid-1930s.

*Prerequisite(s):* Art History 1002 AND One of Art History 1001 or 15 university-level courses (a minimum of 45.0 credit hours)

*Equivalent:* Art History/Museum Studies 3215 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3220****Art from 1945 to 1980***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of modern and contemporary art of the postwar period until 1980 in Western Europe, North America, Latin America and Japan. The revisiting and development of earlier avant-garde approaches to philosophical, gestural, formalist and existentialist abstraction along with the recycling of discarded materials and imagery linked to popular culture will be considered. New approaches to artists' performance, film, video, as well as language and publication-based art are examined, as are expansive engagements with architectural space, the landscape and environment. Critical works focussing on counter-cultural perspectives, feminism and the institutional strictures of the art world are dealt with.

*Prerequisite(s):* One of Art History 3001 or Art History 3215

*Equivalent:* Art History/Museum Studies 3220 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3240****Canadian Art History to 1960***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the art, artists, and art institutions from pre-contact to the establishment of the French and English colonies, up until the advent of abstraction in Canada. Issues of race, gender, nationalism, and colonialism will be addressed.

*Prerequisite(s):* One of Art History 1001 or Art History 1002 AND 15 university-level courses (a minimum of 45.0 credit hours)

*Equivalent:* Art History/Museum Studies 3240 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3245****Canadian Art History from 1960 to the Present***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of art, artists, and art institutions in Canada from 1960 to the present, including First Nations and Inuit art, feminist art, race and multiculturalism, queer identity, and contemporary art practices.

*Prerequisite(s):* One of Art History 1001 or Art History 1002 AND 15 university-level courses (a minimum of 45.0 credit hours)

*Equivalent:* Art History/Museum Studies 3245 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3255****Art and Culture (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings in subject areas dealing with the interactions and relationships between art and culture.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Equivalent:* Art History/Museum Studies 3255 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 3270****Global Art Since 1980***Credit hours: 3.00**Contact hours per week: 3-0-0*

An overview of a variety of themes and approaches in recent global art practices from the 1980s to the present. Issues include: the legacy of important movements like abstraction, conceptual art, performance and land art; the formation of global modernity and its entanglements with colonialism; the role of centres and peripheries in the history of contemporary art. The course will also explore how contemporary art practices have reinterpreted and expanded painting, sculpture, and photography, as well as performance, video, installation, and new media.

*Prerequisite(s):* One of Art History 3001 or Art History 3220 AND 15 university-level courses (a minimum of 45.0 credit hours)

*Equivalent:* Art History/Museum Studies 3270 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**ART HISTORY 4150****Art History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings in subject areas dealing with significant developments in art history.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Equivalent:* Art History/Museum Studies 4150 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities



**ART HISTORY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course. In consultation with the Thesis Supervisor, students will define a research problem, formulate a research plan, conduct research, report orally, and submit a report in the form of an Undergraduate Thesis or by curating an exhibition with an accompanying essay, which will be made publicly available.

**Prerequisite(s):** Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.50 or higher AND

Completion of a minimum of 9 courses (27.0 credit hours) in Art History and/or Museum Studies AND  
Application to the Department of Art

**Equivalent:** Art History/Museum Studies 4995 (prior to 2016/2017)

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Arts and Science (ASCI)**  
**Faculty of Arts and Science**

**ARTS AND SCIENCE 3011****Co-op Work Experience I***Credit hours: 0.00*

Co-op Work Experience I requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and employer and complete a Work Term report graded by an assigned faculty member.

**Prerequisite(s):** Admission to a Co-operative Education program in the Faculty of Arts and Science

**Grading:** Pass/Fail

**Note:** Arts and Science 3011 cannot be taken concurrently with an Applied Studies course.

**ARTS AND SCIENCE 3012****Co-op Work Experience II***Credit hours: 0.00*

Co-op Work Experience II requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and employer and complete a Work Term report graded by an assigned faculty member.

**Prerequisite(s):** One of Arts and Science 3011, Fine Arts 3001, Health Sciences 3331, or Management 3002

**Grading:** Pass/Fail

**Note:** Arts and Science 3012 cannot be taken concurrently with an Applied Studies course.

**ARTS AND SCIENCE 3013****Co-op Work Experience III***Credit hours: 0.00*

Co-op Work Experience III requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and employer and complete a Work Term report graded by an assigned faculty member.

**Prerequisite(s):** One of Arts and Science 3012, Fine Arts 3002, Health Sciences 3332, or Management 3003

**Grading:** Pass/Fail

**Note:** Arts and Science 3013 cannot be taken concurrently with an Applied Studies course.

**ARTS AND SCIENCE 3014****Co-op Work Experience IV***Credit hours: 0.00*

Co-op Work Experience IV requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and employer and complete a Work Term report graded by an assigned faculty member.

**Prerequisite(s):** One of Arts and Science 3013, Fine Arts 3003, Health Sciences 3333, or Management 3004

**Grading:** Pass/Fail

**Note:** Arts and Science 3014 cannot be taken concurrently with an Applied Studies course.

**ARTS AND SCIENCE 3015****Co-op Work Experience V***Credit hours: 0.00*

Co-op Work Experience V requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and employer and complete a Work Term report graded by an assigned faculty member.

**Prerequisite(s):** One of Arts and Science 3014, Fine Arts 3004, Health Sciences 3334, or Management 3005

**Grading:** Pass/Fail

**Note:** Arts and Science 3015 cannot be taken concurrently with an Applied Studies course.

**ARTS AND SCIENCE 3016****Co-op Work Experience VI***Credit hours: 0.00*

Co-op Work Experience VI requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and employer and complete a Work Term report graded by an assigned faculty member.

**Prerequisite(s):** One of Arts and Science 3015, Fine Arts 3005, Health Sciences 3335, or Management 3008

**Grading:** Pass/Fail

**Note:** Arts and Science 3016 cannot be taken concurrently with an Applied Studies course.

**Asian Studies (ASIA)**  
**Faculty of Arts and Science**

**ASIAN STUDIES 1000****Introduction to Asia***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of histories, cultures, and societies of Asia. Diversity across time and space while also emphasizing commonalities in the civilizations of South, Southeast, and East Asia. Thematic organization will make reference to history, geography, literature, religion, philosophy, anthropology, sociology, politics, economics, global health, gender and social issues to provide a broad introduction to Asia.

**Lib Ed Req:** Social Science

**ASIAN STUDIES 2020****Japan, Asia, and the World***Credit hours: 3.00**Contact hours per week: 3-0-0 or 3-0-1*

A comparative study of Japan within the world. Offered in collaboration with students and professors from Gakushuin Women's College in Japan. Topics include history, society, business, religions, geography, popular culture, and international relations.

*Equivalent:* Asian Studies 1850 (Japan and International Relations) (prior to 2020/2021); Asian Studies 1850 (Japan, North America and the World) (prior to 2020/2021); Asian Studies 2850 (Japan, Asia, and the World) (prior to 2020/2021)

*Lib Ed Req:* Fine Arts and Humanities

**ASIAN STUDIES 3150/WOMEN AND GENDER STUDIES 3150****Gender and Asia (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series examines the complex intersections of gender in the Asian context. Individual course offerings will focus on, but not be limited to, the following: development and economy, cross-border migration, militarization and regional conflicts, impact of globalization, culture and politics, youth and democratization, environment and sustainability, tradition and sexualities, science and modernization, and social justice movements.

*Prerequisite(s):* One of Women and Gender Studies 1000 or Asian Studies 1000

*Lib Ed Req:* Social Science

**ASIAN STUDIES 3200/RELIGIOUS STUDIES 3200****Asian Religions and Film (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series examines the interplay between Asian religious traditions and film. Films about Asian religions will be analyzed along with films shaped by Asian religious, philosophical, and aesthetic sensibilities. Hinduism, Buddhism, and East Asian religions will be most prominently represented.

*Prerequisite(s):* One of Asian Studies 1000, Religious Studies 2100, Religious Studies 2200, Religious Studies 2330, or Religious Studies 2360

*Lib Ed Req:* Fine Arts and Humanities

**ASIAN STUDIES 3400/JAPANESE STUDIES 3400****Japanese Society and Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of Japanese society and culture from pre-modern to present day encompassing a range of different theoretical perspectives from history, education, religion, food, language, holidays, pop culture, family, modernization, and subcultures.

*Prerequisite(s):* 15 university-level courses (a minimum of 45.0 credit hours)

*Equivalent:* Modern Languages 2850 (Japanese Society and Culture) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**Astronomy (ASTR)**  
**Faculty of Arts and Science****ASTRONOMY 2020****Modern Astronomy***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-6*

Following an introduction to gravitation and light, this course explores the nature of stars and galaxies and their evolution.

*Material studied:* the sun, the birth and death of stars, neutron stars, black holes, the Milky Way, galaxies, and cosmology.

*Lib Ed Req:* Science

**Note:** Other hours include supervised evening observing sessions.

**ASTRONOMY 2070****The Solar System***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-6*

The foundation of astronomy, including descriptions of such naked-eye observations as eclipses and planetary motions and such basic tools as Kepler's laws, the fundamental properties of light. *Material studied:* the formation of the solar system, physical structure of planets, evolution of planetary atmospheres, Galilean satellites.

*Lib Ed Req:* Science

**Note:** Other hours include supervised evening observing sessions.

**ASTRONOMY 3020****Introduction to Cosmology***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-6*

Recent developments in Astronomy, Astrophysics, and Cosmology such as the current understanding of black holes, dark matter, dark energy, expansion of the universe, Big Bang Theory, inflation, structure within the universe, and the cosmological constant.

*Prerequisite(s):* One of Astronomy 2020, Astronomy 2070, Engineering 2060, Physics 1000, or Physics 1050

*Lib Ed Req:* Science

**Note:** Other hours include two evening observing sessions per term.

**Biochemistry (BCHM)**  
**Faculty of Arts and Science****BIOCHEMISTRY 2000****Introductory Biochemistry***Credit hours: 3.00**Contact hours per week: 3-3-0*

Chemistry of biomolecules including proteins, nucleic acids, carbohydrates and lipids.

*Prerequisite(s):* One of Chemistry 2120 or Chemistry 2500

*Recommended Background:* Biology 1010

*Lib Ed Req:* Science

**Note:** Chemistry 2500 may be completed as a corequisite.

**BIOCHEMISTRY 2300****Elements of Human Nutrition***Credit hours: 3.00**Contact hours per week: 3-0-0*

The science of human nutrition based on some elementary principles of Chemistry and Biochemistry. Nutritional requirements, the function and metabolism of nutrients and the practical means for achieving adequate nutrition are emphasized. The relationship among social and economic issues, nutrition, food production and distribution will be discussed.

*Prerequisite(s):* One of Chemistry 30, Chemistry 0500, or Chemistry 0520

*Lib Ed Req:* Science

**BIOCHEMISTRY 3000****Studies in Biochemistry (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Defined topics in biochemistry elucidating the chemical basis of life, drawing on the expertise of the instructor.

*Prerequisite(s): Biochemistry 2000**Lib Ed Req: Science***BIOCHEMISTRY 3100****Proteins, Enzymes and Nucleic Acids***Credit hours: 3.00**Contact hours per week: 3-3-0*

Chemistry of proteins and nucleic acids with an emphasis on experimental techniques and the relation of structure to function.

*Prerequisite(s): Biochemistry 2000 AND Chemistry 2500**Lib Ed Req: Science**List/Subfield: Biology List I - Cellular and Molecular Biology***BIOCHEMISTRY 3300****Bioenergetics and Metabolism***Credit hours: 3.00**Contact hours per week: 3-3-0*

Chemistry of carbohydrates and lipids and the metabolism of these and other cellular constituents. Energy transduction associated with catabolism and synthesis.

*Prerequisite(s): Biochemistry 2000 AND Chemistry 2600**Corequisite(s): Chemistry 2740**Lib Ed Req: Science***BIOCHEMISTRY 3700/****NEUROSCIENCE 3700****Introduction to Bioinformatics***Credit hours: 3.00**Contact hours per week: 3-3-0*

Basic skills in bioinformatics analysis and foundational knowledge in the handling and application of omics big data in life sciences. Introduction to biological databases and simple programming languages that will enable students to conduct basic analysis of genomes, transcriptomes, epigenomes, and proteomes. Interpretation of data through work in interdisciplinary teams laying the foundations of a future career in the field of bioinformatics and genomics. Computer labs will focus on computational tools and case studies in biomolecular sciences and neurosciences.

*Prerequisite(s): One of Biochemistry 2000, Biology 2000, or Computer Science 1620**Equivalent: Biochemistry 3850 (Bioinformatics I) (prior to 2020/2021)**Lib Ed Req: Science**List/Subfield: Biology List I - Cellular and Molecular Biology***BIOCHEMISTRY 4000****Studies in Biochemistry (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0 or 3-3-0 or 3-0-1*

Advanced subjects in Biochemistry, drawing on the expertise of the instructor.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings, but will normally include one of Biochemistry 3100 or Biochemistry 3300**Lib Ed Req: Science***Note:** This course may occasionally be offered with a laboratory when resources permit and the course theme is appropriate.**BIOCHEMISTRY 4150****Contemporary Methods in Biochemistry***Credit hours: 3.00**Contact hours per week: 3-0-0 or 3-0-1*

Recent and advanced experimental biochemical and biophysical techniques. Examination of experimental methods includes technical background, experimental design, data analysis and current applications of these methods in the scientific literature.

*Prerequisite(s): One of Biochemistry 3100 or Biochemistry 3300**Equivalent: Biochemistry 4000 (Contemporary Methods in Biochemistry) (prior to 2017/2018)**Lib Ed Req: Science***BIOCHEMISTRY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct an original research project, report orally on the work, and submit a final report in the form of an Undergraduate Thesis. The Thesis, which will normally be submitted in both print and electronic forms, will be made publicly available.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.30 or higher AND One of Biochemistry 3100 or Biochemistry 3300***Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work. Faculty regulations require extensive preparatory work prior to registration, including the submission of a Thesis Proposal. Students interested in the Undergraduate Thesis option should therefore discuss the matter with potential supervisors at least several weeks prior to the registration deadline.

**Biology** (BIOL)  
Faculty of Arts and Science

**BIOLOGY 0520**

**Foundations of Biology**

Credit hours: 3.00

Contact hours per week: 2-3-0

Introduction to concepts concerning the organization of life, from macromolecules and cells to ecosystems. Dynamic and interactive properties of living systems. Diversity and classification of living organisms with particular emphasis on evolution as a unifying theme in biology.

Prerequisite(s): Admission to the Indigenous Student Success Cohort AND Biology 20

Equivalent: Biology 0500 (prior to 2016/2017)

Lib Ed Req: Science

**BIOLOGY 1010**

**Cellular Basis of Life**

Credit hours: 3.00

Contact hours per week: 3-3-0

Fundamental principles of cellular biology, including structure and function, metabolism, genetics, and molecular biology of eukaryotic and prokaryotic cells. Attention will be given to the application of cellular and molecular biology in medicine, agriculture and biotechnology.

Prerequisite(s): One of Biology 30, Biology 0520 or Biology 2500 AND

One of Chemistry 30, Chemistry 0500, or Chemistry 0520 AND One of Mathematics 30-I, Mathematics 0500, Mathematics 0520, or admission to the B.H.Sc. in Public Health

OR

One of admission to the Post-Diploma B.Sc. in Agricultural Studies or admission to the Post-Diploma B.Sc. in Environmental Science

Lib Ed Req: Science

**BIOLOGY 1020**

**Diversity of Life**

Credit hours: 3.00

Contact hours per week: 3-3-0

Comparative examination of the diversity of the major lineages of eukaryotic organisms from an evolutionary perspective.

Recommended Background:

One of Biology 30 or Biology 0520

Lib Ed Req: Science

**BIOLOGY 2000**

**Principles of Genetics**

Credit hours: 3.00

Contact hours per week: 3-3-0

Fundamental principles of heredity, including Mendelian laws and genetic recombination. Topics include general concepts of gene structure, inheritance, organization, and expression.

Prerequisite(s): Biology 1010 AND

Biology 1020 AND

One of Chemistry 1000 or Chemistry 1110

OR

Biology 1010 AND

One of Chemistry 1000 or

Chemistry 1110 AND

One of admission to the Post-Diploma B.Sc. in Agricultural Studies or admission to the Post-Diploma B.Sc. in Environmental Science

Lib Ed Req: Science

**BIOLOGY 2001**

**Research Internship I: Scientific Discovery**

Credit hours: 3.00

Contact hours per week: 1-5-0

Experimental approaches and methodology specific to disciplines within the Life Sciences. The scientific process of discovery including: hypothesis testing; experimental design; qualitative and quantitative analysis tools; data acquisition, management and presentation; library resource utilization; scientific writing and presentation. Students will work in small groups under the supervision of several faculty members.

Prerequisite(s): Admission to the Concentration:

Research Internship for the major in Biological Sciences AND

One of Biology 1010 or Biology 1020

Lib Ed Req: Science

**BIOLOGY 2002**

**Research Internship II: Scientific Data and Analysis**

Credit hours: 3.00

Contact hours per week: 1-0-0

Other hours per term: Variable

Working in small groups, students will engage in novel research projects under the supervision of faculty members. In close consultation with faculty, students will propose a set of experiments to address a novel and current research question. Students will be trained in experimental approaches and methodology appropriate to their project. As a cohort, students will be trained in the scientific process of discovery including: evaluating methodology; data acquisition, management and presentation; appropriate methods for analyzing data; critical evaluation of scientific discovery; scientific writing and presentation.

Prerequisite(s): Biology 2001

Lib Ed Req: Science

**Note:** Contact hours will vary, but will average about five hours per week. Students should be aware that this course involves regular contact with the research supervisor(s) as well as some independent work.

**BIOLOGY 2003/HEALTH SCIENCES 2003**

**Epidemiology**

Credit hours: 3.00

Contact hours per week: 3-0-0

Scope and application of epidemiology in relation to factors that affect health and contribute to disease in a global context.

Prerequisite(s): One of Biology 1010 or admission to the Faculty of Health Sciences

Lib Ed Req: Science

**BIOLOGY 2150****Biostatistics***Credit hours: 3.00**Contact hours per week: 3-3-0*

Introduction to statistics and experimental design in the biological sciences. Topics include descriptive statistics, data visualization, experimental design, goodness-of-fit tests, contingency analysis, two-sample and multi-sample comparisons, correlation, and regression. Includes practical instruction using the statistics program R.

*Prerequisite(s):* Biology 1010 AND Biology 1020 AND One of Mathematics 1410, Mathematics 1560, or Statistics 1770  
OR  
Biology 1010 AND Admission to the Post-Diploma B.Sc. in Environmental Science

*Lib Ed Req:* Science**BIOLOGY 2200****Principles of Ecology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Examination of relationships between animals, plants, and their non-living and living environment. Topics include energy flow, nutrient cycles, ecological succession, and the ecology of individuals, populations, communities and ecosystems.

*Prerequisite(s):* Biology 1010 AND One of Biology 1020 or admission to the Post-Diploma B.Sc. in Agricultural Studies

*Lib Ed Req:* Science**BIOLOGY 2300****Cell Biology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Structure and function of a cell, from the most general properties shared by all cells, to the unique, highly intricate functions particular to specialized cells. Exploration of a range of fundamental concepts in cell biology including cellular ultrastructure, metabolism, signaling, extracellular cellular matrix, and histology.

*Prerequisite(s):* Biology 1010 AND One of Biology 1020, admission to the Post-Diploma B.Sc. in Agricultural Studies, or admission to the Post-Diploma B.Sc. in Environmental Science

*Corequisite(s):* Biochemistry 2000

*Equivalent:* Biology 3850 (Cell Biology) (Prior to 2020/2021)

*Lib Ed Req:* Science**BIOLOGY 2500****Biology and Society***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exposure to the biology behind commonly reported topics in the media with the goal of increasing biological literacy. Students will be prepared to make better informed decisions about the biology that impacts daily life.

*Equivalent:* Biology 1850 (Biology and Society) (Prior to 2020/2021); Biology 2850 (Biology and Society) (Prior to 2020/2021)

*Lib Ed Req:* Science**BIOLOGY 2806/HEALTH SCIENCES 2806****Immunology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Biological role of immunity and natural resistance.

*Prerequisite(s):* One of Biology 1010 or admission to the Faculty of Health Sciences

*Lib Ed Req:* Science**BIOLOGY 3000****Gene Expression and Regulation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Molecular mechanisms of gene expression and control at the different stages of the gene expression pathway in prokaryotic and eukaryotic organisms. Fundamental concepts of molecular biology and molecular cloning applications.

*Prerequisite(s):* Biochemistry 2000 AND Biology 2000 AND Biology 2300

*Lib Ed Req:* Science

*List/Subfield:* Biology List 1 - Cellular and Molecular Biology

**BIOLOGY 3001****Research Internship III: Communicating Science***Credit hours: 3.00**Contact hours per week: 1-0-0**Other hours per term: Variable*

Working individually, students will engage in novel research projects under the supervision of faculty members. In close consultation with faculty, students will review literature related to a specific area, and then propose and execute a set of experiments to address a novel and current research question. Students will be trained in advanced experimental approaches and methodology. As a cohort, the students will be trained in science development and communication including: establishing a meaningful research project; defining a project within a broad context; different forms of written presentation; effective oral presentation styles and format; making science accessible to a general audience.

*Prerequisite(s):* Biology 2002*Lib Ed Req:* Science

**Note:** Contact hours will vary, but will average about five hours per week. Students should be aware that this course involves regular contact with the research supervisor(s) as well as considerable independent work.

**BIOLOGY 3005****Genomes***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the processes involved in maintaining the stability of the cellular genome. Topics include DNA damage and repair, DNA recombination, transposable DNA elements, and epigenetics.

*Prerequisite(s):* Biochemistry 2000 AND Biology 2000 AND Biology 2300

*Lib Ed Req:* Science

*List/Subfield:* Biology List 1 - Cellular and Molecular Biology

**BIOLOGY 3110****Cell Signalling***Credit hours: 3.00**Contact hours per week: 3-0-0*

A comprehensive overview of cellular communication. Emphasis will be placed on cell growth, cell cycle, motility, and stem cells from cell biology and experimental perspectives.

*Prerequisite(s):* Biochemistry 2000 AND  
Biology 2000 AND  
Biology 2300

*Substantially Similar:*

Biology 3105 (prior to 2020/  
2021);  
Biology 3115 (prior to 2020/  
2021)

*Lib Ed Req:* Science

*List/Subfield:* Biology List 1 - Cellular and  
Molecular Biology

**BIOLOGY 3210****Experimental Methods in Molecular and Cellular Biology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Modern techniques in cell biology including elementary DNA sequence analysis, DNA purification, gene transfer systems, cell culture, cell staining and labelling, cell cycle analysis, and Western blotting.

*Prerequisite(s):* Biochemistry 2000 AND  
Biology 2000 AND  
Biology 2300

*Lib Ed Req:* Science

*List/Subfield:* Biology List 1 - Cellular and  
Molecular Biology

**BIOLOGY 3300****Evolution***Credit hours: 3.00**Contact hours per week: 3-1-0*

Study of the mechanisms underlying the evolutionary process. Topics include natural selection, quantitative genetics, adaptation, and speciation.

*Prerequisite(s):* Biology 2000 AND  
One of Biology 2200 or  
admission to the Post-Diploma  
B.Sc. in Environmental Science

*Lib Ed Req:* Science

**BIOLOGY 3310****Developmental Biology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Genetic mechanisms controlling embryonic development, pattern formation, morphogenesis, and cell differentiation in selected model organisms.

*Prerequisite(s):* Biochemistry 2000 AND  
Biology 2000 AND  
Biology 2300

*Lib Ed Req:* Science

*List/Subfield:* Biology List 2 - Organismal  
Biology

**BIOLOGY 3400****Principles of Microbiology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Introduction to microorganisms with an emphasis on metabolism, growth and control of growth, genetics, ecology, and microbial diversity, including bacteria, archaea, fungi, protists, algae and viruses.

*Prerequisite(s):* Biochemistry 2000 AND  
Biology 2000 AND  
Biology 2300

*Lib Ed Req:* Science

*List/Subfield:* Biology List 1 - Cellular and  
Molecular Biology

**BIOLOGY 3420****Animal Physiology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Organization and diversity of animal functions, including muscle contractions, respiration, circulation, osmoregulation, digestion, thermoregulation and the roles of the endocrine and nervous systems. Emphasis on vertebrates.

*Prerequisite(s):* Biology 2000 AND  
Biology 2300 AND  
One of Biology 2150 or  
Geography 2700

*Recommended Background:*  
Biology 2200 AND  
Chemistry 2600

*Lib Ed Req:* Science

*List/Subfield:* Biology List 2 - Organismal  
Biology

**BIOLOGY 3460****Plant Physiology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Physiological basis for plant growth. Topics include water relations, photosynthesis, mineral nutrition, active transport, hormones, and physiological acclimation to environmental stress.

*Prerequisite(s):* One of Biology 2000 or  
Biology 2300 AND  
One of Biology 2150 or  
Geography 2700 AND  
One of Biology 2200 or  
admission to the Post-Diploma  
B.Sc. in Environmental Science

*Recommended Background:*

Chemistry 2500

*Lib Ed Req:* Science

*List/Subfield:* Biology List 2 - Organismal  
Biology

**BIOLOGY 3520****Invertebrate Zoology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Phylogeny and evolution of protozoans and invertebrate animals. Emphasis is on functional diversity of form and function, ecology, physiology, conservation, and behaviour of selected groups.

*Prerequisite(s):* One of Biology 2000 or  
Biology 2300 AND  
One of Biology 2150 or  
Geography 2700 AND  
One of Biology 2200 or  
admission to the Post-Diploma  
B.Sc. in Environmental Science

*Lib Ed Req:* Science

*List/Subfield:* Biology List 2 - Organismal  
Biology

**BIOLOGY 3530****Vertebrate Zoology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Comparative survey of the morphology, evolution, classification, and natural history of the vertebrates.

*Prerequisite(s):* Biology 2000 AND  
One of Biology 2150 or  
Geography 2700 AND  
One of Biology 2200 or  
admission to the Post-Diploma  
B.Sc. in Environmental Science

*Lib Ed Req:* Science

*List/Subfield:* Biology List 2 - Organismal  
Biology

**BIOLOGY 3560****Integrative Plant Biology***Credit hours: 3.00**Contact hours per week: 3-3-0*

An overview of plant structure and function with emphasis on flowering plant morphology and diversity. The molecular mechanisms of plant growth and development, including the adaptation and acclimation of plant form and function, will be explored.

*Prerequisite(s):* One of Biology 2150 or Geography 2700 AND One of Biology 2000 or Biology 2300

*Lib Ed Req:* Science

*List/Subfield:* Biology List 2 - Organismal Biology

**BIOLOGY 3630****Field Biology***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-70*

Theory, implementation and analyses of ecological field experiments.

*Prerequisite(s):* One of Biology 2150 or Geography 2700 AND One of Biology 2200 or admission to the Post-Diploma B.Sc. in Environmental Science

*Lib Ed Req:* Science

*List/Subfield:* Biology List 3 - Ecology and Evolutionary Biology

**Note:** The seven-day mandatory field component is completed prior to the regular fall term. This component is based out of a field camp located in Cypress Hills Provincial Park. A fee to offset field-related expenses and accommodation will be applied.

**BIOLOGY 3660****Field Botany***Credit hours: 3.00**Contact hours per week: 3-3-0*

Lectures, laboratory, and field exercises provide an introduction to the identification, classification, distribution, and ecology of local vascular plants. Mandatory field trips comprise the laboratory component of the course. As this is a field course, students should be prepared for moderately strenuous exercise in a variety of weather conditions.

*Prerequisite(s):* One of Biology 2150 or Geography 2700 AND One of Biology 2200 or admission to the Post-Diploma B.Sc. in Environmental Science

*Equivalent:* Biology 3850 (Field Botany and Ecology) (prior to 2019/2020)

*Lib Ed Req:* Science

*List/Subfield:* Biology List 3 - Ecology and Evolutionary Biology

**BIOLOGY 3700****Ecosystem Ecology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Examination of processes controlling ecosystem function. Topics include controls on ecosystem species composition, carbon acquisition, water use, decomposition, and nutrient cycling. Field work, computer simulations, and calculations are included in laboratory assignments.

*Prerequisite(s):* One of Biology 2150 or Geography 2700 AND One of Biology 2200 or admission to the Post-Diploma B.Sc. in Environmental Science

*Lib Ed Req:* Science

*List/Subfield:* Biology List 3 - Ecology and Evolutionary Biology

**BIOLOGY 3710****Population Biology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Population genetics and population ecology, with emphasis on mutation, genetic drift, gene flow, selection and quantitative genetics, population growth, population regulation, demography and life tables, life-history evolution, and species interactions.

*Prerequisite(s):* One of Biology 2150 or Geography 2700 AND One of Biology 2000 or Biology 2300 AND One of Biology 2200 or admission to the Post-Diploma B.Sc. in Environmental Science

*Lib Ed Req:* Science

*List/Subfield:* Biology List 3 - Ecology and Evolutionary Biology

**BIOLOGY 3720****Community Ecology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Exploration of ecological patterns and processes at the community level. Topics include patterns of biological diversity, species coexistence and niche theory, community assembly, and metacommunities. Analysis of community structure using multivariate statistics.

*Prerequisite(s):* One of Biology 2150 or Geography 2700 AND One of Biology 2200 or admission to the Post-Diploma B.Sc. in Environmental Science

*Equivalent:* Biology 3850 (Community Ecology) (prior to 2020/2021)

*Lib Ed Req:* Science

*List/Subfield:* Biology List 3 - Ecology and Evolutionary Biology

**BIOLOGY 4100****Advances in Biotechnology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Recent and advanced aspects of molecular biology and biotechnology.

*Prerequisite(s):* Biology 3005 AND Biology 3110

*Lib Ed Req:* Science

**BIOLOGY 4130****Medical Genomics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Recent and advanced aspects of molecular genetics, bioinformatics and high throughput genomics, with an emphasis on cloning and human diseases.

*Prerequisite(s):* Biology 3005 AND Biology 3110

*Lib Ed Req:* Science

**BIOLOGY 4140****RNA Biology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the cellular roles of RNA molecules and their effects on gene expression. Focus on RNA structure, protein-RNA complexes, RNA viruses, RNA processing, and modern experimental techniques used in the study of RNA function.

*Prerequisite(s):* Biology 3000

*Lib Ed Req:* Science

**BIOLOGY 4155****Cannabis and Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to human endocannabinoid system. Structure, function, and importance for human health, and changes in the function of endocannabinoid system in various diseases. Includes an introduction to variations in Cannabis sativa, including physiology and biochemistry of phytocannabinoids and terpenoids synthesis.

*Prerequisite(s):* Biology 3110

*Equivalent:* Biology 4850 (Cannabis and Health) (prior to 2020/2021)

*Lib Ed Req:* Science

**BIOLOGY 4180****Natural Products***Credit hours: 3.00**Contact hours per week: 3-0-0*

Natural products are chemicals that are produced in nature and are used in medicine, agriculture, and personal care products. This course will examine the biology of natural products and include a multidisciplinary perspective: chemistry, ecology, business, and traditional knowledge. It will provide students with a scientific background to contribute to the growing Canadian and global use of natural products.

*Prerequisite(s):* Biology 3110 AND  
Two of Biology 3000,  
Biology 3400 or Biology 3420

*Lib Ed Req:* Science

**BIOLOGY 4200****Techniques in Molecular Biology***Credit hours: 3.00**Contact hours per week: 1-5-0*

DNA isolation and manipulation, including experiments in subcloning, transformation, mutagenesis, PCR, restriction analyses, agarose gel electrophoresis, and DNA sequencing.

*Prerequisite(s):* One of Biology 3210 or  
Biology 3400

*Recommended Background:*  
Fourth-year standing (a  
minimum of 90.0 credit hours)

*Lib Ed Req:* Science

**BIOLOGY 4210****Environmental Genomics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Application of genomics to the field of environmental science. High-throughput methods in genomics, transcriptomics, metabolomics, proteomics, and epigenomics are first discussed, before exploring their applications in fields including, but not limited to, metagenomics, biodiversity, environmental remediation, and toxicogenomics.

*Prerequisite(s):* One of Biology 3000 or  
Biology 3005

*Equivalent:* Biology 3850 (Environmental  
Genomics) (prior to 2020/  
2021)

*Lib Ed Req:* Science

**BIOLOGY 4230****Molecular and Cellular Biology of Cancer***Credit hours: 3.00**Contact hours per week: 3-0-0*

Recent developments in molecular and cellular biology of cancer. Topics include genetics and epigenetics of cancer, models of carcinogenesis, roles of oncogenes, DNA repair and genome instability, anti-cancer treatment strategies.

*Prerequisite(s):* Biology 3005 AND  
Biology 3110

*Lib Ed Req:* Science

**BIOLOGY 4440****Toxicology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Science of toxicology, including sources of toxicants, toxicokinetics, biotransformation, factors influencing toxicity, and target-organ toxicology with emphasis on the mechanisms of action of toxicants. Topics include cellular responses, biomarkers of exposure and effects, and species differences in vulnerability to toxicants.

*Prerequisite(s):* Biology 3420 AND  
Biochemistry 2000

*Lib Ed Req:* Science

**BIOLOGY 4500****Seminars in Biological Sciences***Credit hours: 3.00**Contact hours per week: 3-0-0*

Emphasis on understanding principles of research in the modern Biological Sciences through weekly presentations from established researchers and associated readings from the primary literature.

*Prerequisite(s):* Biology 3300 AND  
One course (3.0 credit hours)  
from subfield List 1 (Cellular  
and Molecular Biology) AND  
One course (3.0 credit hours)  
from subfield List 2 (Organismal  
Biology) AND  
One course (3.0 credit hours)  
from subfield List 3 (Ecology  
and Evolutionary Biology)

*Lib Ed Req:* Science

**BIOLOGY 4570****Plant Breeding and Genetics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Overview of past, present, and emerging methods and techniques to develop improved new cultivars, or varieties, of plants, particularly crop plants. Topics include both classical and molecular tools for plant breeding, genetic analysis of traits, application of molecular markers, concepts and techniques of tissue culture, gene transfer, seed production, intellectual property, risks, and case studies of breeding the most important crops.

*Prerequisite(s):* Biology 2000 AND  
One of Biology 3460 or  
Biology 3560

*Equivalent:* Biology 3850 (Plant Breeding  
and Genetics) (prior to 2020/  
2021)

*Lib Ed Req:* Science

**BIOLOGY 4605****Conservation Biology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Application of genetic, ecological and evolutionary theory to the understanding and management of biodiversity.

*Prerequisite(s):* Biology 3300 AND  
One course (3.0 credit hours)  
from subfield List 3 (Ecology  
and Evolutionary Biology)

*Equivalent:* Biology 3605 (prior to 2020/  
2021)

*Lib Ed Req:* Science

**BIOLOGY 4700****Molecular Ecology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Application of genetic data to study the ecology of individuals, populations and communities. Emphasis is on the use of molecular markers to study biogeography, dispersal, mating systems, biodiversity, ecological interactions, speciation, and conservation genetics.

*Prerequisite(s):* Biology 3300 AND  
One course (3.0 credit hours)  
from subfield List 3 (Ecology  
and Evolutionary Biology)

*Lib Ed Req:* Science



**BIOLOGY 4710****Evolutionary and Ecological Modelling***Credit hours: 3.00**Contact hours per week: 3-3-0*

Analytical and simulation modelling in ecology and evolution. Population growth, selection, models of disease, the evolution of cooperation, and the evolution of aging.

*Prerequisite(s): Biology 3300 AND*

*One course (3.0 credit hours)  
from subfield List 3 (Ecology  
and Evolutionary Biology)*

*Recommended Background:**Statistics 1770**Lib Ed Req: Science***BIOLOGY 4740****Behavioural Ecology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of how ecological contexts shape animal behaviour through natural selection. Topics include foraging, competition, sociality, mating systems, and communication.

*Prerequisite(s): Biology 3300 AND*

*One course (3.0 credit hours)  
from subfield List 3 (Ecology  
and Evolutionary Biology)*

*Lib Ed Req: Science***BIOLOGY 4800****Biology of Parasitism***Credit hours: 3.00**Contact hours per week: 3-3-0*

Application of ecological and evolutionary principles to host-parasite interactions. Topics include parasite biodiversity, ecological epidemiology, host-parasite coevolution, and applied parasitology.

*Prerequisite(s): Biology 3300 AND*

*One course (3.0 credit hours)  
from subfield List 3 (Ecology  
and Evolutionary Biology)*

*Lib Ed Req: Science***BIOLOGY 4810****Experimental Design and Analysis***Credit hours: 3.00**Contact hours per week: 3-3-0*

Advanced statistics and experimental design in the biological sciences. Topics covered include probability theory, the theoretical foundations and applications of general linear models and generalized linear models, model selection, survival analysis, and other advanced topics. The course includes practical instruction using the statistics program R.

*Prerequisite(s): Biology 2150 AND**Biology 2200 AND*

*Third-year standing (a  
minimum of 60.0 credit hours)*

*Equivalent: Biology 3810 (prior to 2020/2021);*

*Biology 3850 (Experimental  
Design and Analysis) (prior to  
2017/2018)*

*Substantially Similar:**Statistics 3700**Lib Ed Req: Science***BIOLOGY 4840****Limnology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Limnology (the study of lakes, rivers, reservoirs, and wetlands) is the science that underlies protection of water quality and fisheries. Introduction to aquatic communities and the properties of aquatic ecosystems. Topics covered include: the watershed and its hydrology; fluxes of nutrients and materials through aquatic systems; ecosystem structure and habitat dynamics; an evaluation of major plant, animal, and microbial communities; food webs and feeding interactions; human impacts on limnological properties of systems.

*Prerequisite(s): One of Chemistry 2000 or**Chemistry 2120 AND*

*One course (3.0 credit hours)  
from subfield List 3 (Ecology  
and Evolutionary Biology)*

*Lib Ed Req: Science***BIOLOGY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct empirical research, report orally on the work, and submit a report in the form of an Undergraduate Thesis, which will be made publicly available. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a*

*minimum of 90.0 credit hours)  
AND*

*A cumulative GPA of 3.30 or  
higher AND*

*Six Biology courses (18.0 credit  
hours)*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Blackfoot****(BKFT)****Faculty of Arts and Science****BLACKFOOT 1000****Introductory Spoken Blackfoot***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to Blackfoot emphasizing the spoken language.

*Lib Ed Req: Fine Arts and Humanities***BLACKFOOT 2000****Spoken Blackfoot II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Intermediate-level Blackfoot. The course combines the study of conversational Blackfoot with an introduction to reading and writing skills.

*Prerequisite(s): Blackfoot 1000**Lib Ed Req: Fine Arts and Humanities*

**Note:** *Students who already speak some Blackfoot are eligible to take the course.*

**BLACKFOOT 2210****Structure of the Blackfoot Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the sounds, alphabet, and structure of words and sentences in Blackfoot. Students will develop analytical and practical skills to approach the grammatical complexity of Blackfoot words in a systematic manner.

*Prerequisite(s): One of Blackfoot 1000 or one course (3.0 credit hours) in Linguistics*

*Lib Ed Req: Fine Arts and Humanities*

**BLACKFOOT 3210****Blackfoot Morphology and Syntax***Credit hours: 3.00**Contact hours per week: 3-0-0*

Grammatical system of Blackfoot with special attention to stem formation and sentence structure.

*Prerequisite(s): Blackfoot 2210*

*Lib Ed Req: Fine Arts and Humanities*

**BLACKFOOT 4210****Seminar in Blackfoot***Credit hours: 3.00**Contact hours per week: 3-0-0*

Topics in Blackfoot syntax and lexicon.

*Prerequisite(s): Blackfoot 3210*

*Lib Ed Req: Fine Arts and Humanities*

**Canadian Studies****(CNST)****Faculty of Arts and Science****CANADIAN STUDIES 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct fieldwork, text or library-based research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.30 or higher AND Successful completion of an Independent Study at the 3000 or 4000 level in a field relevant to the thesis AND Approval of the Coordinator of Canadian Studies*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Career Development****(CDEV)****Faculty of Education****CAREER DEVELOPMENT 2000****Life-Career Planning***Credit hours: 3.00**Contact hours per week: 3-0-0*

The development of personal career and educational plans. A variety of activities will be used to help students recognize and craft career and life goals, and to identify and develop the skills and supports necessary for success.

*Prerequisite(s): Fewer than 60.0 credit hours completed OR Fewer than 30.0 credit hours completed for post-diploma students*

*Grading: Pass/Fail*

**Note:** *This course does not count as an Education elective in Education programs. For Arts and Science programs, this course counts toward the limit outside Arts and Science. All students are advised to check their program limits and to consult the appropriate academic advising office.*

**Chemistry****(CHEM)****Faculty of Arts and Science****CHEMISTRY 0500****Introduction to Modern Chemistry***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected subjects in Chemistry, with emphasis on material necessary as background preparation for Chemistry 1000. This course is intended for students with little or no background in Chemistry.

*Recommended Background:*

*One of Chemistry 20 or Science 30 AND One of Mathematics 30-1, Mathematics 30-2, Pure Mathematics 30, or Mathematics 0500*

*Equivalent: Chemistry 0520*

*Lib Ed Req: Science*

**Note:** *Credit for Chemistry 0500 will not normally be granted to those with Chemistry 30 or equivalent. Students may be able to take this course for credit with permission of the Department.*

**CHEMISTRY 0520****Introductory Chemistry***Credit hours: 3.00**Contact hours per week: 2-3-0*

Introductory foundation in chemistry. Composition, structure, and properties of substances and the transformations that they undergo.

*Prerequisite(s): Admission to the Indigenous Student Success Cohort AND Chemistry 20*

*Equivalent: Chemistry 0500*

*Lib Ed Req: Science*

**CHEMISTRY 1000****General Chemistry I***Credit hours: 3.00**Contact hours per week: 3-3-0*

An introduction to the discipline and essential concepts of Chemistry.

*Prerequisite(s): One of Chemistry 30, Chemistry 0500, or Chemistry 0520 AND One of Mathematics 30-1, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520*

*Recommended Background:*

*Mathematics 31 AND Physics 30*

*Substantially Similar:*

*Chemistry 1110*

*Lib Ed Req: Science*

**CHEMISTRY 1110****Chemistry for Life Sciences I**

Credit hours: 3.00

Contact hours per week: 3-3-0

A survey of general and organic chemistry with an emphasis on the life sciences.

Recommended Background:

One of Chemistry 30,  
Chemistry 0500, or  
Chemistry 0520 AND  
One of Mathematics 30-I, Pure  
Mathematics 30,  
Mathematics 0500, or  
Mathematics 0520

Substantially Similar:

Chemistry 1000

Lib Ed Req: Science

**Note:** Chemistry 1110 cannot be used to meet the requirements for the major in Chemistry.

**CHEMISTRY 2000****General Chemistry II**

Credit hours: 3.00

Contact hours per week: 3-3-0

Continuation of the introduction to the discipline and advanced concepts of Chemistry.

Prerequisite(s): Chemistry 1000 with a minimum grade of 'C-'

Lib Ed Req: Science

**CHEMISTRY 2120****Chemistry for Life Sciences II**

Credit hours: 3.00

Contact hours per week: 3-3-0

Continued survey of organic chemistry with an emphasis on the life sciences.

Prerequisite(s): Chemistry 1110 with a minimum grade of 'C-'

Substantially Similar:

Chemistry 2500

Lib Ed Req: Science

**Note:** Chemistry 2120 cannot be used to meet the requirements for the major in Chemistry. Students who have credit for Chemistry 1000 and are interested in completing this course should contact the Department of Chemistry and Biochemistry.

**CHEMISTRY 2310****Chemistry and Biochemistry in Society**

Credit hours: 3.00

Contact hours per week: 3-0-0

A course designed for non-Chemistry or non-Biochemistry majors. The course will examine the history of basic chemistry and its impact on society. This will include energy, synthetic materials, pollution, consumer chemistry, drugs and other current topics of interest.

Lib Ed Req: Science

**Note:** Credit is not allowed for Chemistry 2310 subsequent to the completion of any other course in Chemistry.

**CHEMISTRY 2320****History of Chemistry**

Credit hours: 3.00

Contact hours per week: 3-0-0

An introduction to key figures and major discoveries throughout the history of chemistry. Topics include the origins of chemistry; the development of fundamental theories; the beginnings of organic chemistry; and the rise of inorganic, analytical, physical and industrial chemistry.

Prerequisite(s): One of Chemistry 30,  
Chemistry 0500, or  
Chemistry 0520 AND  
Second-year standing (a  
minimum of 30.0 credit hours)

Lib Ed Req: Science

**CHEMISTRY 2410****Analytical Chemistry I**

Credit hours: 3.00

Contact hours per week: 3-3-0

Principles of quantitative analysis: gravimetric and volumetric analysis; acid-base, complexation and oxidation-reduction titrations; statistical treatment of data.

Prerequisite(s): Chemistry 2000 with a minimum grade of 'C-'

Lib Ed Req: Science

**CHEMISTRY 2500****Organic Chemistry I**

Credit hours: 3.00

Contact hours per week: 3-3-0

An introduction to the chemistry of carbon-containing compounds. This course builds a foundation for the study of organic compounds by examining their structure, bonding and stereochemistry. Methods of structure determination and investigations of reaction mechanism are also introduced.

Prerequisite(s): Chemistry 2000 with a minimum grade of 'C-'

Substantially Similar:

Chemistry 2120

Lib Ed Req: Science

**Note:** Some familiarity with Calculus and Physics is recommended.

**CHEMISTRY 2600****Organic Chemistry II**

Credit hours: 3.00

Contact hours per week: 3-3-0

A continuation of Chemistry 2500 with an emphasis on the transformations of organic compounds and the mechanistic processes involved.

Prerequisite(s): Chemistry 2000 with a minimum grade of 'C-'  
AND  
Chemistry 2500 with a minimum grade of 'C-'

Lib Ed Req: Science

**CHEMISTRY 2740****Physical Chemistry I**

Credit hours: 3.00

Contact hours per week: 3-3-0

Basic theories of thermodynamics and kinetics with applications in chemistry, biochemistry, and the life sciences. The laboratory will emphasize experimental methods of physical chemistry, data handling and report writing.

Prerequisite(s): Chemistry 2000 with a minimum grade of 'C-'  
AND  
One of Mathematics 2560 or  
Mathematics 2565

Corequisite(s): Physics 2000

Lib Ed Req: Science

**CHEMISTRY 3250****Contemporary Chemistry***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of current developments in chemistry. Current research interests and recent applications of chemistry in industry. Specific topics will be presented each week by invited speakers and staff. Student presentations; effective searching of chemical literature and databases.

*Prerequisite(s):* Chemistry 2410 AND Chemistry 2600 AND Chemistry 2740 AND One of Mathematics 2560 or Mathematics 2565 AND Physics 2000 AND Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Science

**Note:** Credit will only be given once for Chemistry 3250; however, Chemistry majors are encouraged to attend seminars offered in the context of this course.

**CHEMISTRY 3410****Analytical Chemistry II***Credit hours: 3.00**Contact hours per week: 3-3-0*

Introduction to the major instrumental methods of analytical chemistry; atomic and molecular spectrophotometry; gas and liquid chromatography.

*Prerequisite(s):* Chemistry 2410 AND Chemistry 2500 AND One of Mathematics 1560 or Mathematics 1565 (recommended) AND One of Physics 1000 (recommended), Physics 1050, or Engineering 2000

*Lib Ed Req:* Science**CHEMISTRY 3730****Physical Chemistry II***Credit hours: 3.00**Contact hours per week: 3-3-0*

Principles of quantum mechanics and applications in chemistry; applications to molecular structure and spectroscopy. The computational laboratory includes both a computer algebra module in support of the theoretical developments and an introduction to ab initio quantum chemical calculations.

*Prerequisite(s):* Chemistry 2600 AND Mathematics 1410 AND One of Mathematics 2560 or Mathematics 2565 AND Physics 2000

*Recommended Background:* Chemistry 2740

*Lib Ed Req:* Science**CHEMISTRY 3830****Inorganic Chemistry I***Credit hours: 3.00**Contact hours per week: 3-4-0*

Basic concepts of inorganic chemistry; bonding and symmetry; chemistry of the elements with an emphasis on main group elements and their inorganic and organometallic compounds. Laboratory experiments illustrate the lecture topics with an emphasis on chemical synthesis and characterization.

*Prerequisite(s):* Chemistry 2600*Lib Ed Req:* Science**CHEMISTRY 3840****Inorganic Chemistry II***Credit hours: 3.00**Contact hours per week: 3-4-0*

Chemistry of the elements with an emphasis on transition metals and their inorganic and organometallic compounds. Laboratory experiments illustrate the lecture topics with an emphasis on chemical synthesis and characterization.

*Prerequisite(s):* Chemistry 3830*Lib Ed Req:* Science**CHEMISTRY 4000****Advanced Chemistry (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

In each offering, an area of chemistry including advanced topics in analytical, organic, inorganic, physical, and theoretical chemistry will be explored in depth.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) AND

Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include all of Chemistry 2410 AND Chemistry 2600 AND Chemistry 2740 AND One of Mathematics 2560 or Mathematics 2565 AND Physics 2000

*Lib Ed Req:* Science**CHEMISTRY 4010****Advanced Chemistry with Laboratory (Series)***Credit hours: 3.00**Contact hours per week: 3-3-0*

In each offering, an area of chemistry including advanced topics in analytical, organic, inorganic, physical, and theoretical chemistry will be explored in depth.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) AND

Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include all of Chemistry 2410 AND Chemistry 2600 AND Chemistry 2740 AND One of Mathematics 2560 or Mathematics 2565 AND Physics 2000

*Equivalent:* Lab-based offerings of Chemistry 4000 (prior to 2017/2018)

*Lib Ed Req:* Science**CHEMISTRY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct an original research project, report orally on the work, and submit a final report in the form of an Undergraduate Thesis. The Thesis, which will normally be submitted in both print and electronic forms, will be made publicly available. Students will define a research plan in consultation with their Thesis Supervisor.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.30 or higher AND

At least 10 courses completed in the Chemistry major

*Corequisite(s):* Chemistry 3250

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as a considerable amount of independent work. Faculty regulations require extensive preparatory work prior to registration, including the submission of a Thesis Proposal. Students interested in the Undergraduate Thesis option should therefore discuss the matter with potential supervisors at least several weeks prior to the registration deadline.

## Cinema (CINE) Faculty of Fine Arts

### CINEMA 1000

#### Introduction to Cinema Studies

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introduction to the study of narrative cinema focusing on the historical function, effects, and uses of various formal properties including narrative structure, design, composition, cinematography, editing, sound, and performance.

*Equivalent: Drama 3030 (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities*

### CINEMA 3000

#### Contemporary American Cinema

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course examines a variety of forms of contemporary American filmmaking practices. Students will become acquainted with the industrial, technological, and economic forces that determine modern production, distribution, and exhibition strategies. In addition, students will learn the fundamentals of film criticism and acquire their own critical priorities through evaluative work on recent American films.

*Prerequisite(s): Cinema 1000 or 15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: New Media 3850 (Contemporary American Cinema) (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities*

### CINEMA 3001

#### Film Authorship

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An investigation of the tensions between individual creativity and collaborative enterprise in commercial filmmaking, with a focus on the work of two major directors.

*Prerequisite(s): Cinema 1000 or second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: New Media 3001 (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities*

### CINEMA 3010

#### Cinematography and Lighting

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An exploration of concepts and techniques of cinematography including composition, camera movement, lenses, and lighting as expressive tools.

*Prerequisite(s): Cinema 1000 AND New Media 2030*

*Equivalent: New Media 3010 (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course

### CINEMA 3110/NEW MEDIA 3110

#### Postproduction and Visual Effects

*Credit hours: 3.00*

*Contact hours per week: 4-0-0*

An exploration of post-production methods with an emphasis on narrative editing technique, motion graphics, colour correction, visual effects and compositing.

*Prerequisite(s): Cinema 1000 AND New Media 2030*

*Recommended Background: Cinema 3010*

*Equivalent: New Media 3620 (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.

### CINEMA 3201

#### Documentary Film Studies

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Reviewing some of the fundamental ethical and aesthetic principles of non-fiction filmmaking, the course provides an overview of the major documentary modes' historical development.

*Prerequisite(s): Cinema 1000 or 15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

### CINEMA 3202

#### Film Noir and Crime Cinema

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Drawing on various models of genre theory, the course analyzes the recurring thematic, stylistic and rhetorical preoccupations of film noir and hard-boiled crime films. Additionally, the course demonstrates how this category is informed by the socio-political climate in which it is produced.

*Prerequisite(s): Cinema 1000 or 15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: New Media 3200 (Film Genres: Film Noir) (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities*

### CINEMA 3203

#### Film Comedy

*Credit hours: 3.00*

*Contact hours per week: 4-0-0*

Comedy has long been the most popular film genre with audiences. This course will try to understand the comic perspective and explore the world of comedy, and many different aspects pertaining to it, through examples from film and television.

*Prerequisite(s): Cinema 1000 or 15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: New Media 3200 (Film Genres: Comedy) (prior to 2017/2018); Cinema 3200 (Film Genres: Comedy) (prior to 2018/2019)*

*Lib Ed Req: Fine Arts and Humanities*

### CINEMA 3550/NEW MEDIA 3550

#### History of Animation

*Credit hours: 3.00*

*Contact hours per week: 4-0-0*

This course traces the evolution of animation from silent cinema through the 'Golden Age of Animation' to the digital age. Study areas will include the impact of television and other media on animation and focus on some of the important people, studios, and institutions that have contributed to its rich and varied tradition across the globe.

*Prerequisite(s): Cinema 1000 or 15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**CINEMA 4010****Narrative Production Techniques***Credit hours: 3.00**Contact hours per week: 4-0-0*

An intensive exploration of the craft of short-form narrative cinema production, including methods in producing, directing, cinematography, and editing.

*Prerequisite(s): One of Cinema 3010 or New Media 3420*

*Recommended Background:*  
Cinema 3110

*Equivalent:* New Media 3510 (prior to 2017/2018)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

*Students enrolling in Cinema 4010 should have a short narrative screenplay ready for production (5-10 pages).*

**CINEMA 4420/NEW MEDIA 4420****Screenwriting***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploring the fundamentals of screenwriting and story development through script writing and film analysis. The importance of character and conflict is explored with an emphasis on the scene as the basic unit of the screenplay.

*Prerequisite(s): One of New Media 3420 or Drama 2750*

*Lib Ed Req:* Fine Arts and Humanities

**CINEMA 4820/NEW MEDIA 4820****Writing for Comedy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Writing for comedy is serious business. This course explores the important difference between simply being funny, and comic, which requires an understanding of what comedy is and how it works. It covers how to write comedy for movies, television situation comedies, web series, sketch comedy, and stand up.

*Prerequisite(s): One of Cinema 3203, New Media 3420, or Drama 2750*

*Equivalent:* New Media 4850 (Writing for Comedy) (prior to 2017/2018)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

**Computer Science****(CPSC)****Faculty of Arts and Science****COMPUTER SCIENCE 1000****Introduction to Computer Science***Credit hours: 3.00**Contact hours per week: 3-2-0*

Overview of computer technology and computer science. Hardware and the concept of software. Introduction to common applications. Problem solving using the computer. Social issues in computing.

*Lib Ed Req:* Science

**Note:** This course may NOT be included among the courses required for a Computer Science or Mathematics major in Arts and Science.

**COMPUTER SCIENCE 1620****Fundamentals of Programming I***Credit hours: 3.00**Contact hours per week: 3-1-1*

Introduction to problem-solving and algorithms. Machine representation of data. Implementation of algorithms in a programming language. Fundamentals of programming concepts including branching and loops. Top-down programming and modular design. Arrays. Records. Techniques for constructing elegant and robust programs.

*Prerequisite(s): One of Mathematics 30-1, Mathematics 30-2, Pure Mathematics 30, Mathematics 0500, Mathematics 0520, admission to the Post-Diploma B.Sc. in Agricultural Studies, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science*

*Lib Ed Req:* Science

**COMPUTER SCIENCE 1820****Discrete Structures***Credit hours: 3.00**Contact hours per week: 3-0-1*

Introduction to proofs. Algorithms and complexity. Divisibility and modular arithmetic. Matrix algebra. Counting. Discrete probability. Graphs and trees.

*Prerequisite(s): One of Mathematics 30-1, Mathematics 30-2, Pure Mathematics 30, Mathematics 0500, Mathematics 0520, or admission to the Post-Diploma B.Sc. in Computer Science*

*Lib Ed Req:* Science

**COMPUTER SCIENCE 2610****Introduction to Digital Systems***Credit hours: 3.00**Contact hours per week: 3-2-0*

Review of number systems. Boolean algebra and simplification of Boolean functions. Combinational circuits. Sequential circuits. Registers and counters.

*Prerequisite(s): Computer Science 1620 AND One of Computer Science 1820 or Mathematics 1410*

*Lib Ed Req:* Science

**COMPUTER SCIENCE 2620****Fundamentals of Programming II***Credit hours: 3.00**Contact hours per week: 3-1-1*

Introduction to object-oriented programming techniques: classes, objects, and methods. Generic programming. Recursion. Abstract data types: lists, stacks, queues, priority queues, binary trees. Algorithms for searching and sorting, and algorithm analysis.

*Prerequisite(s): Computer Science 1620 AND One of Computer Science 1820 or Mathematics 1410*

*Lib Ed Req:* Science

**COMPUTER SCIENCE 2720****Practical Software Development***Credit hours: 3.00**Contact hours per week: 3-2-0*

Advanced object-oriented techniques including inheritance and polymorphism. Introduction to object-oriented design. Error detection and handling. Testing. Correctness and efficiency of programs. Collaborative software project. Version control. UNIX programming tools and scripting languages.

*Prerequisite(s): One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science*

*Lib Ed Req:* Science

**COMPUTER SCIENCE 3200****Practical Problem Solving in Computer Science***Credit hours: 3.00**Contact hours per week: 1.5-1.5-0*

A study of problem solving techniques including divide and conquer, dynamic programming, greedy algorithms, search and backtracking, heuristics for hard problems. The techniques will be applied for programming solutions to small but challenging problems from a variety of areas, including arithmetic and algebra, number theory, graph theory, combinatorics, geometry, strings.

*Prerequisite(s): Computer Science 3620 AND Application to the Department of Mathematics and Computer Science*

*Lib Ed Req: Science*

**Note:** The course is intended for students who enjoy solving programming contest problems and will serve as preparation for the ACM International Collegiate Programming Contest.

**COMPUTER SCIENCE 3615****Computer Architecture***Credit hours: 3.00**Contact hours per week: 3-0-0*

Register-level transfer design. Constructions of the basic subsystems of computers (control unit, arithmetic and logic unit, data path, memory, input/output). Assembly of subsystems into basic computer architecture. Performance enhancement techniques.

*Prerequisite(s): Computer Science 2610 AND Computer Science 2620 OR Admission to the Post-Diploma B.Sc. in Computer Science*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3620****Data Structures and Algorithms***Credit hours: 3.00**Contact hours per week: 3-0-0*

Efficient algorithm design and algorithm analysis. Abstract data types and data structures. Algorithm design and problem-solving techniques for sorting problems, tree-based problems and graph-based problems.

*Prerequisite(s): Computer Science 1820 AND One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3630****Theoretical Foundations of Computing***Credit hours: 3.00**Contact hours per week: 3-0-0*

Computation as strings and languages. Regular languages, finite state automata and their equivalence. Formal Grammars. Context-free languages, push-down automata and their equivalence. Recursive languages and recursively enumerable languages. Turing machines and effective computability. Church's thesis. The Chomsky hierarchy.

*Prerequisite(s): One of Computer Science 1620 or admission to the Post-Diploma B.Sc. in Computer Science AND Mathematics 2000*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3655****Operating Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

Overview of operating systems: history, functionality, design issues. Operating system principles and structures. Concurrency: process state, context switches, mutual exclusion, semaphores, deadlock. Scheduling: preemption, schedules, processes and threads. Memory management: swapping, paging, segmentation, placement and replacement algorithms.

*Prerequisite(s): Computer Science 2720 AND Computer Science 3615*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3660****Introduction to Database Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

Fundamental concepts of database management: modelling, design and implementation. The languages and facilities provided by database management systems, and system implementation techniques.

*Prerequisite(s): One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science AND One of Computer Science 1820 or Mathematics 2000*

*Recommended Background: Computer Science 2720*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3710****Computer Graphics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Two- and three-dimensional geometric transformations. Viewing and projection principles. Object representation and simple lighting. Hidden line and surface removal, clipping. Surface Representations: Bezier and Spline methods. Texture mapping. Graphics pipeline programming.

*Prerequisite(s): One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3720****Introduction to Software Engineering***Credit hours: 3.00**Contact hours per week: 3-0-0*

System life cycle and methodologies, estimating and planning, requirements gathering and specification, system external design, system internal design, development and implementation, testing, operation and maintenance, quality assurance.

*Prerequisite(s): Computer Science 2720*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3730****Cryptography***Credit hours: 3.00**Contact hours per week: 3-0-0*

Classical ciphers, substitution ciphers, permutation ciphers. Shannon's information theory, entropy, Huffman codes, perfect secrecy and the one-time pad. Symmetric-key ciphers: block and stream ciphers. Public-key cryptosystems. Key distribution. Message authentication and digital signatures.

*Prerequisite(s): One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science AND Mathematics 2000*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3740****Programming Languages***Credit hours: 3.00**Contact hours per week: 3-0-0*

A comparison of programming languages and their implementations. One language from each of the following families: functional, declarative/logic, Object-Oriented. Topics selected from: garbage collection, heap management, procedural languages, historical developments.

*Prerequisite(s): One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science AND Mathematics 2000*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3750****Artificial Intelligence***Credit hours: 3.00**Contact hours per week: 3-0-0*

Problem-solving in artificial intelligence. Knowledge representation and reasoning. Selected topics from uncertainty, probabilistic reasoning, planning and robotics, learning techniques, pattern recognition, natural language processing, and computer vision.

*Prerequisite(s): One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science*

*Recommended Background: One of Computer Science 1820 or Mathematics 2000*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3770****Human-Computer Interaction***Credit hours: 3.00**Contact hours per week: 3-0-0*

Characteristics of humans in the context of user interfaces. Design principles and methodologies. Interface evaluation with and without user involvement. Development of graphical user interfaces. Applications of human-computer interaction in program design.

*Prerequisite(s): Computer Science 2720*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 3780****Data Communications and Networking***Credit hours: 3.00**Contact hours per week: 3-2-0*

Layered network design. Data encoding and transmission. Data link protocols, network protocols, and network applications. OSI and TCP/IP models.

*Prerequisite(s): One of Computer Science 2620 or admission to the Post-Diploma B.Sc. in Computer Science*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 4110****Studies in Algorithms (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced topics in algorithms. Subjects may include, but are not limited to, discrete and continuous optimization, computational geometry, computational mathematics.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND Additional Prerequisites will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 4210****Studies in Systems (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced topics in the design of systems. Subjects may include, but are not limited to, database systems, computer networks, operating systems, topics related to circuit design, compilers and compilation techniques, parallel and distributed systems.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND Additional prerequisites will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 4310****Studies in Computational Intelligence (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced topics in computational intelligence. Subjects may include, but are not limited to, artificial intelligence, data mining, image processing, audio processing, natural language processing, human-computer interaction, bioinformatics, computer vision, machine learning.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND Additional prerequisites will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 4600****Compiler Design***Credit hours: 3.00**Contact hours per week: 3-0-0*

Lexical and syntax analysis. Top-down and bottom-up parsing. Syntax-directed definition, semantics, and code generation.

*Prerequisite(s): Computer Science 3620 AND Computer Science 3630*

*Recommended Background:*

*Computer Science 3740*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 4625****Design and Analysis of Advanced Algorithms***Credit hours: 3.00**Contact hours per week: 3-0-0*

Mathematics for the analysis of algorithms. Models of computation. Advanced algorithms. NP-completeness. Topics chosen from: probabilistic algorithms, parallel algorithms, complexity classes.

*Prerequisite(s): Computer Science 3620 AND Computer Science 3630*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 4660****Database Management Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

Systems issues and requirements related to the maintenance and the integrity of the data such as data storage, querying, and transaction management.

*Prerequisite(s): Computer Science 3660*

*Lib Ed Req: Science*



**COMPUTER SCIENCE 4780****Distributed Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

Distributed computing environments. Interprocess communication. Distributed file systems. Synchronization. Protection and security.

*Prerequisite(s): Computer Science 3655 AND Computer Science 3780*

*Lib Ed Req: Science*

**COMPUTER SCIENCE 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.70 or higher*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Cree****(CREE)****Faculty of Arts and Science****CREE 1000****Introductory Spoken Cree***Credit hours: 3.00**Contact hours per week: 3-0-0*

Plains Cree as a second language.

*Lib Ed Req: Fine Arts and Humanities*

**CREE 2210****Structure of the Plains Cree Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the structure of words and sentences in Plains Cree. Students will develop analytical and practical skills to approach the grammatical complexity of Plains Cree words in a systematic manner.

*Prerequisite(s): One of Cree 1000 or one course (3.0 credit hours) in Linguistics*

*Lib Ed Req: Fine Arts and Humanities*

**Drama****(DRAM)****Faculty of Fine Arts****DRAMA 1000****Introduction to Dramatic Arts***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

An exploration of the traditions, theories, and disciplines related to the production of theatre projects, as well as an investigation of the relationship between theatre, artistic expression and society.

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Production attendance.*

**DRAMA 2010****Performance Fundamentals***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

A study of performance fundamentals utilizing, body, voice, imagination, with attention to collaboration.

*Corequisite(s): Drama 1000*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Studio course. Production attendance, rehearsal.*

**DRAMA 2100****Play Reading and Analysis***Credit hours: 3.00**Contact hours per week: 3-0-0*

A practical examination of the principles and techniques involved in script analysis for theatre practitioners.

*Lib Ed Req: Fine Arts and Humanities*

**DRAMA 2120****History and Development of Theatre I***Credit hours: 3.00**Contact hours per week: 3-0-0*

History and development of theatre from its origins to 1700.

*Prerequisite(s): One of Drama 1000 or Second-year standing (a minimum of 30.0 credit hours)*

*Recommended Background: Writing 1000*

*Lib Ed Req: Fine Arts and Humanities*

**DRAMA 2130****History and Development of Theatre II***Credit hours: 3.00**Contact hours per week: 3-0-0*

History and development of theatre from 1700 to the present.

*Prerequisite(s): Drama 2120*

*Lib Ed Req: Fine Arts and Humanities*

**DRAMA 2310****Acting I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

The fundamental techniques of acting for the stage, through the exploration of scripted texts.

*Prerequisite(s): Drama 2010*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Studio course. Production attendance, rehearsal.*

**DRAMA 2320****Voice I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

Study of voice fundamentals; development of the natural voice through the exploration of breath support, sound production, resonance and articulation.

*Prerequisite(s): Drama 1000*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Studio course. Production attendance, rehearsal.*

**DRAMA 2340****Movement I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

Study of movement fundamentals, skills and physical expression as a foundation for theatrical performance.

*Prerequisite(s): Drama 1000*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Studio course. Production attendance, rehearsal.*

**DRAMA 2341****Movement Studies I (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

Introductory study of movement and dance techniques and topics.

*Recommended Background: Drama 2340*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Studio course. Production attendance, rehearsal.*

**DRAMA 2350****Speech Communication***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-6*

The art of effective communication through speech focusing on the theoretical principles and the dynamics of delivering effective speeches to a group.

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Drama 2350 is intended for non-Drama majors and is NOT counted toward the degree requirements in any B.F.A. - Dramatic Arts degree program nor in any B.A. or BASc. degree program with a major in Dramatic Arts. B.F.A. - Multidisciplinary students may count Drama 2350 toward the second and third major area only. Production attendance.*

**DRAMA 2420****Directing I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

An exploration of directing principles and techniques, with an emphasis on directorial preparation and staging.

*Prerequisite(s): Drama 2010 AND Drama 2100**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance, rehearsal.***DRAMA 2510****Theatre for Young Audiences I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-40*

An exploration of the techniques and theories related to theatrical performances created for young audiences.

*Prerequisite(s): Drama 2010**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Rehearsal, working weekend, performance off campus.***DRAMA 2600****Drama Portfolio I***Credit hours: 3.00**Contact hours per week: Variable*

Participation in one faculty supervised production of the Department of Drama from the perspective of a theatre creator, actor, director or other faculty approved artistic role.

*Prerequisite(s): Successful assignment to a Department of Drama production**Lib Ed Req: Fine Arts and Humanities*

**Note:** All students must complete an Application and Approval for Portfolio Course Credit form. The form must be signed by the supervising faculty member no later than one day from the beginning of the students' work on any production assignment.

**DRAMA 2740****Devised Theatre I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

An overview of diverse approaches to devised theatre, with an emphasis on artistic impulse and group collaboration.

*Prerequisite(s): Drama 2010**Equivalent: Drama 2850 (Theatre Creation I) (prior to 2016/2017)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance.***DRAMA 2750****Playwriting I***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-15*

An exploration of dramatic writing for the stage.

*Prerequisite(s): Drama 2010 AND Drama 2100**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**DRAMA 2810****Introduction to Stagecraft***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: Variable*

This course is designed to give a well-rounded introduction to technical theatre including but not limited to safety, scenery, properties, lighting, sound, costume and stage management. This course will review current practices, methods and technologies resulting in an understanding of, and approach to common production processes and vocabulary. The course will include both in-class lectures and hands-on experience working on a production outside of scheduled class time.

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**DRAMA 2825****Introduction to Design for Theatre***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-20*

Course introduces the role, fundamental principles, and common practices of theatrical design while also exploring production processes of the designer for the purpose of storytelling. Course will utilize practical application of the course topics through design projects in but not limited to scenery, lighting, and costumes.

*Prerequisite(s): Drama 1000 AND Drama 2810**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance, rehearsal.*

**DRAMA 2827****Visualization I***Credit hours: 3.00**Contact hours per week: 4-0-0**Other hours per term: 0-0-20*

The first of two courses exploring visual communication practices related to theatrical design and construction for scenery, lighting, and costuming. Course focuses on traditional and digital visualization techniques and processes used to develop effective tangible communication methods for theatrical designers and technicians. Visualization I: Drafting establishes the foundation of 2D theatrical visual communication through learning to read, interpret, and create common theatrical drawings used throughout the production process.

*Prerequisite(s):* Drama 1000 AND Drama 2810

*Recommended Background:* Drama 2825

*Equivalent:* Drama 3827 (prior to 2020/2021)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.  
Production attendance, rehearsal.

**DRAMA 3040****Exploring Creativity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Study of creativity in various areas of human endeavour. Use of drama exercises and projects to explore the creative process and develop creative thinking skills.

*Prerequisite(s):* 15 university-level courses (a minimum of 45.0 credit hours)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.  
Drama 3040 is intended for non-Drama majors and is NOT counted toward the degree requirements in any B.F.A. - Dramatic Arts degree program nor in any B.A. or B.A.Sc. degree program with a major in Dramatic Arts. B.F.A. - Multidisciplinary students may count Drama 3040 toward the second and third major area only. Production attendance.

**DRAMA 3100****Theatre in Performance***Credit hours: 3.00**Contact hours per week: 2-0-0**Other hours per term: 0-0-40*

Principles and techniques for analysis of live theatrical performances.

*Prerequisite(s):* Drama 1000 AND Drama 2100

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Off-campus production attendance required. Students should not register in this course while participating in major theatrical productions, on-campus or off-campus. Students enrolled in Drama 3100 on the Lethbridge campus are required to purchase a theatre ticket and travel package in lieu of a textbook. Students enrolled on the Calgary campus are required to purchase the theatre ticket package only. The cost of this package varies from term to term. Students planning on enrolling in Drama 3100 are advised to contact the course instructor for anticipated ticket and travel package costs.

**DRAMA 3130****Canadian Theatre***Credit hours: 3.00**Contact hours per week: 3-0-0*

The development of theatre in English and French Canada from the 17th Century to the present.

*Prerequisite(s):* Drama 2130

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 3150****Theatre Studies (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings in subject areas dealing with significant developments in theatre and dramatic arts, such as major artists/theorists, major playwrights, genres and styles, historical periods, non-Western Theatre, dance, and film.

*Prerequisite(s):* Drama 2100 AND Drama 2130

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 3151****Play Reading and Analysis II***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of selected dramatic literature, with relevance to the current departmental season.

*Prerequisite(s):* Drama 2100 AND Drama 2130

*Equivalent:* Drama 3150 (prior to 2016/2017);  
Drama 3850 (Play Reading and Analysis II) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 3160****Dramaturgy***Credit hours: 3.00**Contact hours per week: 4-0-0*

A study of historical research, dramatic analysis, and other critical tools as applied to the theatre-making process by Dramaturgs and other theatre artists.

*Prerequisite(s):* Drama 2100 and Drama 2130

*Equivalent:* Drama 3850 - Dramaturgy (prior to 2021/2022)

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 3310****Acting II***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-25*

The development of actor processes, with an emphasis on the exploration of naturalistic texts.

*Prerequisite(s):* Drama 2100 AND Drama 2310 AND Drama 2320 AND Drama 2340 AND Successful Performance audition AND 15 university-level courses (a minimum of 45.0 credit hours)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.  
Production attendance, rehearsal, performance on campus.

**DRAMA 3320****Voice II***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-25*

An intensive study of voice; the development of vocal skills that prepare an actor for performance; exploration of diverse texts and performance situations.

*Prerequisite(s):* Drama 2310 AND Drama 2320

*Corequisite(s):* Drama 3310

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.  
Production attendance, rehearsal, performance on campus.

**DRAMA 3342****Movement II***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-25*

Intensive study of movement skills and physical expression for performance in theatrical work.

*Prerequisite(s): Drama 3310**Equivalent: Drama 3341 (prior to 2016/2017)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**DRAMA 3420****Directing II***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-40*

An investigation of directing principles and techniques, with an emphasis on communicating with actors; a final directing project involving minor technical elements.

*Prerequisite(s): Drama 2100 AND Drama 2310 AND Drama 2420 AND Audition AND 15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: Drama 3850 (Directing II) (prior to 2016/2017)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 3510****Theatre for Young Audiences II***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-25*

An investigation of contemporary approaches to Theatre for Young Audiences.

*Prerequisite(s): Drama 2510**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on and/or off campus.*

**DRAMA 3600****Drama Portfolio II***Credit hours: 3.00**Contact hours per week: Variable*

Participation in one faculty-supervised production of the Department of Drama from the perspective of a theatre creator, actor, director or other faculty-approved artistic role.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours) AND Successful assignment to a Department of Drama production*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** All students must complete an Application and Approval for Portfolio Course Credit form. The form must be signed by the supervising faculty member no later than 1 day from the beginning of the students' work on the production assignment.

**DRAMA 3611****Advanced Stagecraft I***Credit hours: 3.00**Contact hours per week: 1-0-0**Other hours per term: Variable*

This course will provide practical application of the material introduced in Stagecraft. This class will delve further into the world of technical theatre, while providing opportunities for students to develop technical skills by being part of the theatrical production process. Class will also involve regular meetings to discuss projects, progress, and production principles.

*Prerequisite(s): Drama 2810**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 3740****Devised Theatre II***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-25*

An investigation of contemporary approaches to devised theatre, with an emphasis on the development of group projects.

*Prerequisite(s): Drama 2100 AND Drama 2310 AND Drama 2740 AND Audition AND 15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: Drama 3850 (Theatre Creation II) (prior to 2016/2017)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 3750****Playwriting II***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-25*

The art and craft of writing for the stage with emphasis on the one-act play.

*Prerequisite(s): Drama 2310 AND Drama 2750*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 3765****New Play Workshop***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-40*

Professional practicum in play development and production focussing on one or two previously unproduced Canadian works.

*Prerequisite(s): One of Drama 3310, Drama 3420, Drama 3740, Drama 3750 or Drama 3827*

*Equivalent: Drama 3850 (Play Development Workshop) (prior to 2016/2017); Drama 3850 (New Play Workshop) (prior to 2016/2017)*

*Substantially Similar:*

*Drama 3760 (prior to 2016/2017)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 3770****Improvisation***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-25*

An investigation of principles and techniques used to improvise theatrical performance, with an emphasis on applied contexts that involve the presence of a live audience.

*Prerequisite(s): Drama 2740**Equivalent: Drama 3850 (Improvisation) (prior to 2016/2017)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance, rehearsal, performance on campus.***DRAMA 3821****Technical Theatre Studies (Series)***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-50*

Offerings in specific technical production topics such as Stage Management, Mask Making, Stage Makeup, Scenic Paint, Properties, Puppet Construction and Special Effects. Course topics will be offered based on instructor availability and student interest.

*Prerequisite(s): Drama 1000 AND**Drama 2810 AND**Additional prerequisites will be specified (including any recommended background) for individual offerings**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**DRAMA 3827****Visualization II***Credit hours: 3.00**Contact hours per week: 4-0-0**Other hours per term: 0-0-20*

The second of two courses exploring visual communication practices related to theatrical design and construction for scenery, lighting, and costuming. Courses focus on traditional and digital visualization techniques and processes used to develop effective tangible communication methods for theatrical designers and technicians. Visualization II: Rendering and Model Making establishes the foundation of 3D theatrical visual communication through learning to develop drawings and models that represent both the corporeal and atmospheric elements of theatrical design.

*Prerequisite(s): Drama 2825 AND**Drama 2827**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance, rehearsal.***DRAMA 3832****Technical Theatre Construction: Scenic***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-40*

Course introduces the basic principles of theatrical scenic construction techniques, tools, materials, vocabulary, and personnel. Course will review current equipment, methods, and technologies resulting in an understanding of and ability to communicate and execute common theatrical scenic production practices and processes. Course will include demonstrations and involve practical application of beginner techniques through paper projects as well as hands-on experience.

*Prerequisite(s): Drama 2827**Equivalent: Drama 3821 (Scenic Construction) (prior to 2020/2021)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance, rehearsal.***DRAMA 3833****Technical Theatre Construction: Lighting***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-40*

Course introduces the basic principles of theatrical lighting construction techniques, tools, materials, vocabulary, and personnel. Course will review current equipment, methods, and technologies resulting in an understanding of and ability to communicate and execute common theatrical lighting production practices and processes. Course will include demonstrations and involve practical application of beginner techniques through paper projects as well as hands-on experience.

*Prerequisite(s): Drama 2827**Equivalent: Drama 3821 (Lighting Electrics) (prior to 2020/2021) and Drama 3821 (Lighting for the Theatre) (prior to 2020/2021)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance, rehearsal.***DRAMA 3834****Technical Theatre Construction: Costume***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-40*

Course introduces the basic principles of theatrical costume construction techniques, tools, materials, vocabulary and personnel. Course will review current equipment, methods, and technologies resulting in an understanding of and ability to communicate and execute common theatrical costume production practices and processes. Course will include demonstrations and involve the practical application of beginner techniques through paper projects as well as hands-on experience.

*Prerequisite(s): Drama 2827**Equivalent: Drama 3831 (prior to 2021/2022); Drama 3821 (Costume Construction) (prior to 2020/2021)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Rehearsal/production attendance.***DRAMA 3846****Design for Theatre: Scenic***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-30*

Course introduces the principles of scenic design in a theatrical environment. Course will explore the interpretation, visualization, and conceptualization of scenery for the purpose of storytelling. Course reviews creative interpretation and practical documentation of design information through developing an understanding of and approach to scenic design production processes including vocabulary and common practices.

*Prerequisite(s): Drama 2100 AND**Drama 3827**Equivalent: Drama 3845 (Scenic Design for [the] Theatre) (prior to 2020/2021)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.*Production attendance, rehearsal.*

**DRAMA 3847****Design for Theatre: Lighting***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-30*

Course introduces the principles of lighting design in a theatrical environment. Course will explore the interpretation, visualization, and conceptualization of lighting for the purpose of storytelling. Course reviews creative interpretation and practical documentation of design information through developing an understanding of and approach to lighting design production processes including vocabulary and common practices.

*Prerequisite(s):* Drama 2100 AND Drama 3827

*Equivalent:* Drama 3845 (Lighting Design) (prior to 2020/2021)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

*Production attendance, rehearsal.*

**DRAMA 3848****Design for Theatre: Costume***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-30*

Course introduces the principles of costume design in a theatrical environment. Course will explore the interpretation, visualization and conceptualization of costumes for the purpose of storytelling. Course reviews creative interpretation and practical documentation of design information through developing an understanding of and approach to costume design production processes including vocabulary and common practices.

*Prerequisite(s):* Drama 2100 AND Drama 3827

*Equivalent:* Drama 3845 (Design for Theatre: Costume) (prior to 2021/2022); Drama 3845 (Costume Design) (prior to 2020/2021)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Production attendance, rehearsal. Studio Course

**DRAMA 3870****Technical and Design History A***Credit hours: 3.00**Contact hours per week: 3-0-0*

The development of architecture and ornamental styles and technology, within Western civilization, from antiquity through the 21st century. Emphasizing the eras most commonly seen in theatrical productions. Will include discussion on changing styles, materials and construction methods, as well as a look at the development of lighting and sound technologies as it pertains to theatrical design.

*Prerequisite(s):* Drama 2825

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 3871****Technical and Design History B***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will discuss the development of costume within Western civilization, from antiquity through the 21st century, emphasizing the eras most commonly seen in theatrical productions. This course will include the exploration of changing silhouettes, materials and construction methods, as well as a look at the shifts in hair and makeup styles as it pertains to theatre.

*Prerequisite(s):* Drama 2825

*Recommended Background:* Drama 2827

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 4000****Creative Collaboration***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-20*

This studio course focuses on learning how to work creatively in a collaborative environment emphasizing creative research, communication, visualization, and presentation skills through research and design exercises focusing on theatrical storytelling.

*Prerequisite(s):* Drama 1000 AND Drama 2100 AND Drama 2810 AND Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

*Production attendance, rehearsal.*

**DRAMA 4100****Theatre in Professional Contexts***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-25*

An examination of theatre in professional contexts, including an investigation of organizational models, funding structures, grant programs, and professional affiliations and practices.

*Prerequisite(s):* Drama 3100

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 4150****Theatre Studies (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings in subject areas dealing with significant developments in theatre and dramatic arts, such as major artists/theorists, major playwrights, genres and styles, historical periods, non-Western Theatre, dance, and film.

*Prerequisite(s):* One of Drama 3150, Drama 3151, Drama 3160, English 3010, English 3201, English 3602, English 3620, English 3660, or New Media 3560

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 4211****Theories of Theatre***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theories of theatre since Aristotle, with an emphasis on the 20th Century and contemporary critical theory.

*Prerequisite(s):* One of Drama 3150, Drama 3151, Drama 3160, English 3010, English 3201, English 3602, English 3620, English 3660, or New Media 3560

*Lib Ed Req:* Fine Arts and Humanities

**DRAMA 4310****Acting III***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-25*

The application of actor processes, with an emphasis on the performance of diverse texts.

*Prerequisite(s):* Drama 3310

*Equivalent:* Drama 4850 (Acting III) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 4312****Acting for the Camera***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-40*

Techniques and processes used in performance for television, film, and other related media.

*Prerequisite(s): Drama 3310**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Rehearsal/participation in film project on and/or off campus.*

**DRAMA 4420****Directing III***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-50*

An advanced investigation of directing principles and techniques, with an emphasis on conceptualization and execution of a directorial vision; a final directing project involving technical elements.

*Prerequisite(s): Drama 3420**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 4600****Drama Portfolio III***Credit hours: 3.00**Contact hours per week: Variable*

Participation in one faculty-supervised production of the Department of Drama from the perspective of a theatre creator, actor/director or other faculty-approved artistic role.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours) AND*

*Successful assignment to a Department of Drama production*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** All students must complete an Application and Approval for Portfolio Course Credit form. The form must be signed by the supervising faculty member no later than 1 day from the beginning of the students' work on the production assignment.

**DRAMA 4611****Advanced Stagecraft II***Credit hours: 3.00**Contact hours per week: 1-0-0**Other hours per term: Variable*

This course will provide practical application of the material introduced in Stagecraft. This class will delve further into the world of technical theatre, while providing opportunities for students to develop technical skills by being part of the theatrical production process. Class will also involve regular meetings to discuss projects, progress, and production principles.

*Prerequisite(s): Drama 3611**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**DRAMA 4740****Devised Theatre III***Credit hours: 3.00**Contact hours per week: 6-0-0**Other hours per term: 0-0-25*

An advanced investigation of contemporary approaches to devised theatre, with an emphasis on developing an individual artistic voice and solo performance.

*Prerequisite(s): Drama 3740**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

*Production attendance, rehearsal, performance on campus.*

**Economics****(ECON)****Faculty of Arts and Science****ECONOMICS 1010****Introduction to Microeconomics***Credit hours: 3.00*

*Contact hours per week: 3-0-0 or  
3-1-0*

The study of how prices and quantities are determined in the marketplace. Consumers' and firms' views of the various markets in which goods and services are bought and sold. Current everyday life examples of microeconomics, as well as the role of government in the Canadian free market system.

*Lib Ed Req: Social Science*

**Note:** This course may be offered with a lab component.

**ECONOMICS 1012****Introduction to Macroeconomics***Credit hours: 3.00*

*Contact hours per week: 3-0-0 or  
3-1-0*

The study of the current Canadian economy, including the roles of the Federal Government and the Bank of Canada. Canada's output, unemployment, inflation, money, interest rates, investment, consumption, and trade relationships in the economy. Canada's role in the world economy.

*Lib Ed Req: Social Science*

**Note:** This course may be offered with a lab component.

**ECONOMICS 2070/****MANAGEMENT 2070****Operations and Quantitative Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Management of production and service operations, including capacity planning, process and layout design, and TQM; applications of quantitative techniques like linear programming, forecasting, inventory models, waiting line models, CPM/PERT, simulations and decision theory are discussed within the operations environment.

*Prerequisite(s): One of Statistics 1770 or [Health Sciences 3450/ Psychology 3450 and admission to the B.H.Sc./B.Mgt. combined degrees program] AND  
Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Science***ECONOMICS 2140****Introduction to Financial Economics***Credit hours: 3.00**Contact hours per week: 3-0-0*

The interplay between basic concepts of Economics and Finance. Simple and compound interest, with applications to continuous interest, annuities and perpetuities, loan and mortgage payments, sinking funds, bonds, capitalization and depreciation. Topics include the calculation of net present values, basic asset pricing, evaluation of risk and return, capital budgeting, and financial derivatives. Emphasis on practical problems with economic applications.

*Lib Ed Req: Social Science*

**ECONOMICS 2150****Economics of Agricultural Issues***Credit hours: 3.00**Contact hours per week: 3-0-0*

Agriculture in a modern economy. Globalization of agriculture. Canadian agriculture in the World Trade Organization and NAFTA. Safety net issues. Subsidies in agriculture. Marketing issues in Canadian agriculture. Current policy debates.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science***ECONOMICS 2350****Economics of Agricultural Markets I***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the processes and institutions comprising the contemporary food marketing system. Basic theory and underlying factors determining and affecting grain and livestock prices. Spatial price relationships. Temporal price variation. Price differences due to form (particularly dealing with grading and quality). Prices as a coordinating mechanism in vertically-related systems. Derived demand and marketing margins. Marketing boards.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science***ECONOMICS 2750****Quantitative Methods in Economics***Credit hours: 3.00**Contact hours per week: 3-0-0 or 3-1-0*

The mathematical interpretation of fundamental economic concepts; demand and supply; competitive equilibrium. Application of the calculus and matrix algebra to production and distribution theory, growth models and investment theory. Solving systems of linear equations, optimization problems and some dynamics of economic systems.

*Prerequisite(s): Economics 1010**Lib Ed Req: Science*

**Note:** This course may be offered with a lab component.

**ECONOMICS 2900****Economics and Business Statistics***Credit hours: 3.00**Contact hours per week: 3-0-0 or 3-1-0*

The application of statistical techniques to economic and business data, with emphasis on statistical estimation, hypothesis testing, regression, correlation, time series analysis and index numbers.

*Prerequisite(s): Statistics 1770 AND**One of Economics 1010 or Economics 1012**Mutually Exclusive:**Statistics 2780**Substantially Similar:**Statistics 2780**Lib Ed Req: Science*

**Note:** This course may be offered with a lab component.

**ECONOMICS 3010****Intermediate Microeconomic Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

An analytical approach to optimal resource allocation in a competitive economy; the theory of consumer behaviour; the theory of cost and production; price determination under perfect competition and monopoly; general equilibrium theory; welfare economics.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science***ECONOMICS 3012****Intermediate Macroeconomic Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Utilization of economic principles to study the determination of income, consumption, investment, employment, price level, and how government policies impact them. Topics include the measurement of unemployment, income, and inflation; theories of economic growth; basic analysis of business-cycle fluctuations of two main macroeconomic models (the flexible-price macroeconomics and the fixed-price macroeconomics); and the effect of fiscal and monetary policies on the economy.

*Prerequisite(s): Economics 1012**Lib Ed Req: Social Science***ECONOMICS 3030****Managerial Economics***Credit hours: 3.00**Contact hours per week: 3-0-0 or 3-1-0*

An introduction to the application of economic principles to organizations and how they operate. The neoclassical theory of the firm, team production, property rights, ownership and efficiency, contract theory, rent capture, agency problems and corporate control, managing human resources, core competencies and competitive strategies, organizational structure in a global environment. Case studies relate theoretical concepts to modern firms.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science*

**Note:** This course may be offered with a lab component.

**ECONOMICS 3120****Economics of Professional Sports***Credit hours: 3.00**Contact hours per week: 3-0-0*

The application of microeconomic principles to analyze and interpret current issues in the professional sports industry. Topics include: history and economic characteristics of professional sports leagues; local market demand; profitability and taxes; competitive structure of a sports league; cost-benefit analysis of new stadiums; player and team production and salaries; rival leagues; and competitive parity.

*Prerequisite(s): Economics 1010**Equivalent: Economics 2120 (prior to 2016/2017)**Lib Ed Req: Social Science***ECONOMICS 3170****Economic History of Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

Development of the Canadian economy from colonial times to the present; European origins; the staple trades, growth of agriculture, manufacturing, transportation; growth of banking and capital market institutions; roles of government; historical origins of contemporary Canadian economic problems; application of economics to historical issues.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Recommended Background:**One of History 2710 or History 2720**Equivalent: Economics 2170 (prior to 2018/2019)**Lib Ed Req: Social Science*



**ECONOMICS 3210****Natural Resource Economics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Economic issues and analysis related to the use of renewable and non-renewable resources, and their extraction, management, conservation and efficient allocation in static and dynamic framework. Management approaches for specific renewable resources such as water, forestry and fishery; and generic management approaches for non-renewable resources such as oil, gas, coal and minerals. Problems of externality, resource scarcity, and overexploitation.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science***ECONOMICS 3220****Environmental Economics***Credit hours: 3.00**Contact hours per week: 3-0-0*

The economic analysis of environmental issues; design and implementation of government policies; cost-benefit analysis; survey of environmental policies and regulations in Canada; measurement of environmental values; current local and global environmental problems; topics of special interest will vary from term to term.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science***ECONOMICS 3300****Agricultural Policy I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Use of economic principles to analyze rural incomes and agricultural policies. Topics include supply-managed marketing boards in dairy and poultry industries; bio-fuels and their effect on food prices; water management policies for improved water use efficiency; international trade and multilateral agreements; benefits and costs of using genetically-modified seeds; changes in land tenure and use; environmental/economic trade-off of agricultural practices; and other current agricultural issues.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science***ECONOMICS 3350****Economics of Agricultural Markets II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Microeconomic theory and analysis of markets for agricultural and food products. Alternative market structures, market regulation, the role of information in markets, and organization structures. Introduction to the institutional structure and economic functions of futures and options markets. Price formation in commodity futures and options markets. The theory of intertemporal price formation for storable commodities along with the theory and practice of hedging.

*Prerequisite(s): Economics 1010 AND Economics 2350**Lib Ed Req: Social Science***ECONOMICS 3400****Money and Banking***Credit hours: 3.00**Contact hours per week: 3-0-0*

The unique roles of the banking and financial sectors in the Canadian economy with an emphasis on current issues and innovations. Topics include the history and uses of money; the roles and functions of financial intermediaries and financial instruments; the determination of interest rates; inflation rates and exchange rates in Canada's monetary system; and the roles and policies of the Bank of Canada in maintaining Canadian economic stability within a changing world economy.

*Prerequisite(s): Economics 1012**Lib Ed Req: Social Science***ECONOMICS 3550****International Economics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Why nations trade with each other; trade protection policies and their rationale; the role international institutions play in world trade; and the determination of the exchange rate and its relationship to the current account. Focused on trade models, economic policies, and institutions related to issues such as protectionism, regionalism, liberalization of economic systems, globalization, exchange rate determination, purchasing power parity, balance of payments, currency convertibility and open economy macroeconomics.

*Prerequisite(s): Economics 1010 AND Economics 1012**Lib Ed Req: Social Science***ECONOMICS 3600****Labour Economics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Utilization of economic principles to study the determination of wages and employment in both competitive and unionized labour markets with an emphasis on current labour issues. Topics include measurement of unemployment; effects of minimum wages and employment insurance on employment; different models of wage determination and collective bargaining; gender wage differentials and other forms of discrimination; and effects of labour migration within and outside of Canada.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science***ECONOMICS 3710****Economic Analysis of Canadian Public Issues***Credit hours: 3.00**Contact hours per week: 3-0-0*

The application of simple economic analysis to current Canadian public policy issues. Course content will vary from term to term, but topics will be weighted toward labour market and social issues such as labour market discrimination, poverty and income distribution, crime, etc.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Lib Ed Req: Social Science***ECONOMICS 3750****Economics of Public Spending***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theories of allocating resources by political means; public goods, externalities, income and wealth distribution and the role of government spending; the effects of taxation and government spending on resource allocation; tax incidence, cost-benefit analysis and fiscal federalism are covered.

*Prerequisite(s): Economics 1010**Lib Ed Req: Social Science*

### **ECONOMICS 3780/ MANAGEMENT 3780**

#### **Principles of Industrial Organization**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The development of economic principles applied to the behaviour of individual firms and the collection of firms at the industry level. Topics include measures of market power, cost concepts and output decisions, various types of price discrimination and their effects on firm profits and consumer welfare, pricing strategies, providing product optimal varieties and quality, product bundling and tie-in sales. An introduction to game theory, and strategic pricing and output behaviour.

*Prerequisite(s): Economics 1010*

*Equivalent: Economics 3080/  
Management 3780 (prior to  
2021/2022)*

*Lib Ed Req: Social Science*

### **ECONOMICS 3800**

#### **Economic Development**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Theoretical aspects and empirical evidence related to economic development throughout the developing world. Modern theories of economic growth and development. Economic analysis of current issues and problems in development including poverty, inequitable income distribution, stagnation in agriculture, population growth, savings and capital accumulation, urbanization and rural-urban migration.

*Prerequisite(s): Economics 1010*

*Lib Ed Req: Social Science*

### **ECONOMICS 3950**

#### **Econometrics I**

*Credit hours: 3.00*

*Contact hours per week: 3-1-0*

Multiple regression analysis; problems in regression analysis including multicollinearity, autocorrelation, heteroscedasticity, specification error and systems of equations.

*Prerequisite(s): Economics 1012 AND  
One of Economics 2900 or  
Statistics 2780*

*Lib Ed Req: Science*

### **ECONOMICS 4010**

#### **Advanced Microeconomic Theory**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Analytical economics tools for economics majors and those considering graduate programs are developed. Topics include the structure of firms and incentives of managers; firm behaviour under asymmetric information, risk and uncertainty; contract design; auction theory; and other current topics.

*Prerequisite(s): Economics 2750 AND  
Economics 3010*

*Lib Ed Req: Social Science*

### **ECONOMICS 4012**

#### **Advanced Macroeconomic Theory**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Modern macroeconomic theory for economics majors and those considering graduate programs, utilizing microeconomic foundations with applications to current macroeconomic issues. Examination of the determinants of long-run growth and short-term cyclical fluctuations using various current models, including the real business cycle approach, the New Keynesian approach, and models that generate multiple equilibria. Comparison of model predictions to relevant Canadian data. The roles of fiscal and monetary policy.

*Prerequisite(s): Economics 2750 AND  
Economics 3012*

*Lib Ed Req: Social Science*

### **ECONOMICS 4150**

#### **Mathematical Economics**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The application of mathematical tools to economic analysis; the use of calculus and matrix algebra as applied to unconstrained and constrained optimization problems; the derivation and mathematical properties of economic functions; comparative static analysis; linear economic systems; and other topics.

*Prerequisite(s): Economics 1012 AND  
Economics 2750 AND  
Economics 3010 AND  
One of Mathematics 1510,  
Mathematics 1560, or  
Mathematics 1565*

*Lib Ed Req: Science*

### **ECONOMICS 4300**

#### **Agricultural Policy II**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Income problems in agriculture; federal and provincial goals for Canadian agriculture; welfare implications of policies to increase demand or decrease supply of agricultural commodities; risk and uncertainty in agricultural production; analysis of policies to decrease risk and uncertainty in agriculture; economics of agricultural research; price and income policies in Canadian agriculture.

*Prerequisite(s): One of Economics 3010 or  
Economics 3300*

*Recommended Background:  
Economics 2900*

*Lib Ed Req: Social Science*

### **ECONOMICS 4400**

#### **Monetary Economics**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Monetary policy in Canada and its effects on the economy. Topics include the development of the overlapping generations' model, rational expectations models, inflation targeting by the Bank of Canada, hyperinflations, dollarization, and common currency areas.

*Prerequisite(s): Economics 3012 AND  
Economics 3400*

*Lib Ed Req: Social Science*

### **ECONOMICS 4500**

#### **International Trade Theory**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A theoretical approach to international trade; topics include the basic trade model, the Ricardian and Heckscher-Ohlin theories of international trade, intra-industry trade, the impact of multinational corporations, tariff and nontariff barriers to trade and international factor movements; Canadian trade policy.

*Prerequisite(s): Economics 3010*

*Lib Ed Req: Social Science*

**ECONOMICS 4550****International Finance***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theories of balance of payment adjustments, foreign exchange rate market under alternative exchange rate regimes, monetary and fiscal policies under fixed and floating exchange rate systems, monetary integration, the international capital markets, international monetary system, international policy coordination, and the theoretical and empirical explanations of currency crises.

*Prerequisite(s): Economics 3012**Lib Ed Req: Social Science***ECONOMICS 4590****Economics of Globalization***Credit hours: 3.00**Contact hours per week: 3-0-0*

Analytical approach to globalization and international economic integration. Topics include international trade flows in goods and services, preferential trade agreements, multilateral trade agreements, foreign direct investment, multinational enterprises, offshoring/outsourcing, relationship between globalization and economic growth, relationship between globalization and international movements of labour and capital, and implications of globalization for the environment.

*Prerequisite(s): Economics 1010*

*Equivalent: Economics 4850 (Topics in International Trade) (prior to 2017/2018); Economics 3850 (Economics of Globalization) (prior to 2017/2018)*

*Lib Ed Req: Social Science***ECONOMICS 4960****Econometrics II***Credit hours: 3.00**Contact hours per week: 3-0-0*

An extension of Economics 3950 (Econometrics I). Topics include dummy variables, qualitative and limited dependent variables, and simultaneous equation models. Optional topics include simple expectations models, errors in variables, specification tests and diagnostics checks, distributed lag models, and seemingly unrelated regression models.

*Prerequisite(s): Economics 3950**Lib Ed Req: Science***ECONOMICS 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct field work, text- or library-based research, submit a report in the form of an Undergraduate Thesis, which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND*

*A cumulative GPA of 3.30 or higher AND*

*Economics 3950 AND*

*Application to the Department of Economics*

*Corequisite(s): Economics 4010 AND**Economics 4012 AND**Economics 4150*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Education****(EDUC)****Faculty of Education****EDUCATION 2500****Orientation to Teaching***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-60*

An introductory Education course with a field experience component to assist students in making a decision concerning admission into the Faculty of Education and to assist the Faculty in determining the appropriateness of the student's admission. Students are assigned to school classrooms for 60 hours of practicum.

*Prerequisite(s): Eight courses (a minimum of 24.0 credit hours) AND A GPA of 2.50, calculated on all University of Lethbridge and transferable courses*

*Grading: Pass/Fail*

**Note:** *Students must pass Education 2500 with a favourable recommendation to be eligible for admission to the Faculty of Education. Offered: Fall, spring, Summer Session I.*

**EDUCATION 2510****APPLIED STUDIES Work Experience Evaluation***Credit hours: 3.00*

Development of a specific learning proposal defining the learning objectives to be achieved and a written/oral evaluation of the work experience in an educational setting. Formal written submission is required to demonstrate ability to apply theory to the work experience.

*Corequisite(s): Education 2500**Grading: Pass/Fail***EDUCATION 3500****Professional Semester I Practicum***Credit hours: 3.00**Other hours per term: 0-0-125*

Students are assigned to schools for approximately 125 hours in a generic practicum to develop and practice skills and knowledge related to on-campus components.

*Prerequisite(s): Admission to the Faculty of Education*

*Grading: Pass/Fail***EDUCATION 3501****Curriculum and Instruction***Credit hours: 2.00**Other hours per term: 24-0-0*

Interpreting and mapping of pedagogical content knowledge and integrated teaching strategies, with particular focus on meeting learner needs through establishing learner outcomes, lesson and rudimentary unit planning and classroom management.

*Prerequisite(s): Admission to the Faculty of Education*

**EDUCATION 3502****Educational Psychology***Credit hours: 2.00**Other hours per term: 24-0-0*

Principles of educational psychology applied to classroom applications; includes child development, principles of learning, classroom management and motivation.

*Prerequisite(s): Admission to the Faculty of Education*

**EDUCATION 3503****Language in Education***Credit hours: 2.00**Other hours per term: 24-0-0*

Understanding the role of language and the language arts in education generally and in instruction across the curriculum (K-12) specifically.

*Prerequisite(s): Admission to the Faculty of Education*

**EDUCATION 3504****Evaluation of Learning***Credit hours: 2.00**Other hours per term: 24-0-0*

Introduction to a variety of approaches to evaluating student learning.

*Prerequisite(s): Admission to the Faculty of Education*

**EDUCATION 3505****Teaching Seminar***Credit hours: 2.00**Other hours per term: 0-24-0*

Understanding the personal and professional nature of teaching; learner and classroom contexts; teaching strategies and teacher development.

*Prerequisite(s): Admission to the Faculty of Education*

*Grading: Pass/Fail*

**EDUCATION 3508****Communications Technology and Education***Credit hours: 2.00**Other hours per term: 24-0-0*

An introduction to knowledge, skills, attitudes, and critical perspectives, for effectively integrating communications technology into teaching and learning.

*Prerequisite(s): Admission to the Faculty of Education*

*Grading: Pass/Fail*

**EDUCATION 3599****Professional Semester I Placeholder***Credit hours: 15.00*

This Placeholder course enables students completing a Professional Semester I to maintain continuing student status. Once students have accepted their Offer of Admission to the Faculty of Education, they are automatically registered in the Placeholder. On the first day of the term, students will be provided with the information necessary to enrol in the appropriate courses. For student loan/scholarship enrolment verification purposes, 15.0 credit hours are attached to this Placeholder.

**EDUCATION 3600****Professional Semester II Practicum***Credit hours: 4.50**Other hours per term: 0-0-150*

Student teachers are assigned to schools for approximately 150 hours of teaching experience in a subject-related practicum.

*Prerequisite(s): Professional Semester I*

*Grading: Pass/Fail*

**EDUCATION 3601****Principles of Curriculum and Instruction for Majors***Credit hours: 3.00**Other hours per term: 36-0-0*

The relationship of content and teaching strategies in specific subject majors. For Modern Languages majors, the language of instruction is English.

*Prerequisite(s): Professional Semester I*

**EDUCATION 3602****The Educational Psychology of Exceptional Learners***Credit hours: 3.00**Other hours per term: 36-0-0*

An introduction to the characteristics and potentialities of children with exceptional learning needs, including principles and strategies used to meet the needs of students with learning and/or behavioural needs within mixed-ability classrooms.

*Prerequisite(s): Professional Semester I*

**EDUCATION 3603****Social Context of Schooling***Credit hours: 3.00**Other hours per term: 36-0-0*

Social and cultural influences and issues affecting learning, teaching and the process of schooling.

*Prerequisite(s): Professional Semester I*

**EDUCATION 3604****Evaluation of Student Learning***Credit hours: 1.50**Other hours per term: 20-0-0*

Evaluation of student learning, emphasizing data gathering, summarizing and interpreting data and use of the results to improve curriculum, teaching and guidance.

*Prerequisite(s): Professional Semester I*

**EDUCATION 3699****Professional Semester II Placeholder***Credit hours: 15.00*

This Placeholder course enables students completing a Professional Semester II to maintain continuing student status. Students who are eligible to register in the upcoming Professional semester are required to enrol in the Placeholder course during registration. Once the Faculty of Education has completed course assignments, students are required to register themselves in the designated course(s). For student loan/scholarship enrolment verification purposes, 15.0 credit hours are attached to this Placeholder.

**EDUCATION 3700****Applied Principles of Curriculum and Instruction for Non-Majors (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Relationship of objectives, content, teaching strategies and evaluation in a subject area.

*Prerequisite(s): Professional Semester I*

**Note:** Students may not complete this course in their major area of study. Students may complete up to two offerings in Career and Technology Studies (CTS), which will be reflected on their transcript as:  
Education 3700 - Applied Principles of Curriculum and Instruction for Non-Majors (Series), CTS I  
Education 3700 - Applied Principles of Curriculum and Instruction for Non-Majors (Series), CTS II

**EDUCATION 3801****Issues in Curriculum and Instruction (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

An in-depth study of curriculum and instructional strategies in a specific area of a school-based subject. With permission of the Assistant Dean, Student Program Services, some of these courses may replace the required Curriculum and Instruction course for non-majors.

*Prerequisite(s): Professional Semester I*

(Additional prerequisites may be specified, including any recommended background, for individual offerings)

**EDUCATION 3871****Elementary Music Classroom***Credit hours: 3.00**Contact hours per week: 3-0-0*

Materials, methods and strategies used in teaching music in elementary schools.

*Prerequisite(s): Professional Semester I*

*Recommended Background:*

*Basic musicianship skills or theory*

**EDUCATION 3872****Secondary Music Classroom***Credit hours: 3.00**Contact hours per week: 3-0-0*

Materials, methods and strategies used in teaching music in secondary schools.

*Prerequisite(s): Professional Semester I*

*Recommended Background:*

*A knowledge of rudimentary music theory*

**EDUCATION 3875****Brass and Percussion Methods***Credit hours: 3.00**Contact hours per week: 2-2-0*

Brass and percussion performance teaching skills, brass and percussion curriculum, instrument maintenance and appropriate instructional strategies.

*Prerequisite(s): Music 1160 or Music 2260***AND**

Second-year standing (a minimum of 30.0 credit hours)

**Note:** Education 3875 will not be counted toward the B.Ed. degree (except for Music Education majors) if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 3876****Woodwind and String Methods***Credit hours: 3.00**Contact hours per week: 2-2-0*

Woodwind and string performance teaching skills, woodwind and string curriculum, instrument maintenance and appropriate instructional strategies.

*Prerequisite(s): Music 1160 or Music 2260***AND**

Second-year standing (a minimum of 30.0 credit hours)

**Note:** Education 3876 will not be counted toward the B.Ed. degree (except for Music Education majors) if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 3877****Vocal and Classroom Instruments Methods***Credit hours: 3.00**Contact hours per week: 2-2-0*

Vocal and classroom instruments performance teaching skills, vocal and classroom curriculum, instrument maintenance and appropriate instructional strategies.

*Prerequisite(s): Music 1160 or Music 2260***AND**

Second-year standing (a minimum of 30.0 credit hours)

**Note:** Education 3877 will not be counted toward the B.Ed. degree (except for Music Education majors) if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 4000****Advanced Level Curriculum and Instruction (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

An expansion of the content and teaching strategies introduced in Education 3601. Emphasis on the theoretical and research bases of specific subject areas.

*Prerequisite(s): Professional Semester II (in the same subject area)***EDUCATION 4210****Curriculum Development Seminar (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination, design and development of curriculum in a specific area.

*Prerequisite(s): Professional Semester II*

(Additional prerequisites may be specified, including any recommended background, for individual offerings)

**EDUCATION 4220****Curriculum and Administration Seminar (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Development and administration of curriculum at the kindergarten/elementary, middle/junior high, senior high school and adult education levels.

*Prerequisite(s): Professional Semester I***EDUCATION 4259****Issues in Educational Media (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Current issues in educational media dependent on student interests and needs and instructor availability. Examples include: Presentation Media – Application of instructional design principles to the preparation of mediated communications. Guidelines for planning and treatment of messages in any media format. Planning and Production of Learning Centres – Examination of learning centres as a means for individualizing instruction. Production of a learning centre which illustrates the qualities of effective centre design.

*Prerequisite(s): Professional Semester I***EDUCATION 4260****English Language Arts in the Elementary School***Credit hours: 3.00**Contact hours per week: 3-0-0*

Foundational theory and classroom practices of language arts instruction in the elementary school.

*Prerequisite(s): Professional Semester I***EDUCATION 4262****English Language Arts in the Secondary School***Credit hours: 3.00**Contact hours per week: 3-0-0*

Foundational theory and classroom practices of language arts instruction in the secondary school.

*Prerequisite(s): Professional Semester I***EDUCATION 4263****Language Arts Instruction for Students with Learning Difficulties***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-20*

Assessment and instruction of children who experience difficulty in learning to read and write; participants will design and deliver instruction under supervision in instructional settings.

*Prerequisite(s): Professional Semester I**Recommended Background:*

One 4000-level course (3.0 credit hours) in Language Arts

**EDUCATION 4265****Children's and Young Adult Literature in the Classroom***Credit hours: 3.00**Contact hours per week: 3-0-0*

The characteristics, qualities and pedagogical uses of literature for children and young adults.

*Prerequisite(s): Professional Semester I***EDUCATION 4269****Issues in Language Arts (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Issues in Language Arts Education, selected according to student interest and available instructor expertise. Examples include: Holistic Approaches to Teaching Language Arts; Language Arts and Special Needs Students; Language Arts and Non-Academic Students; Popular Culture as Literature.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4270****Communication Development: Oral Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

The nature and development of oracy and implications for care giving and instructional programs in spoken language.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

**Note:** Education 4270 will not be counted toward the B.Ed. degree if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 4271****Teaching Writing in the Schools***Credit hours: 3.00**Contact hours per week: 3-0-0*

Teaching and practice of writing in the schools.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4272****Teaching English as a Second Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

Foundations, approaches, methods, techniques, programs and issues pertaining to instructing and evaluating English as a second language.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4310****Comparative Studies of Education in Developed and Third World Nations***Credit hours: 3.00**Contact hours per week: 3-0-0*

Societies and educational systems of developed Western, developed Socialist and Third World nations.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4311****World Issues and Problems in Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

Major factors affecting educational accessibility, achievement, practices, policies, planning and structures from an international perspective.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4320****Education and Society from a Sociological Perspective***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theories in the sociology of education; relationships between schools and other social institutions; economic, political and socialization functions of schooling; influences upon learning, achievement, evaluation, the curriculum and educational practice; issues of mobility stratification and differential treatment in the classroom.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

**Note:** Education 4320 will not be counted toward the B.Ed. degree if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 4321****Social Issues in Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of such factors as the economy, the state, social class, gender, ethnicity, subcultural membership, ideology and the home environment in relation to schooling.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4341****Foundations of Multicultural Education in Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

An historical and sociological analysis of Canada's policy of Multiculturalism and multicultural education; multicultural policies and practices in Canadian schools.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4360****Studies in the History of Western Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

The influence of race, religion, social class and gender in shaping dominant educational ideas and practices in the Western tradition from ancient times.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4361****History of Canadian Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

History of educational thought and development in Canada.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

**Note:** Education 4361 will not be counted toward the B.Ed. degree if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 4362****Concepts of Childhood in the History of Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

Changing perceptions of the nature of childhood within the family, the community and society from antiquity to today; attendant educational theories and practices.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

**Note:** Education 4362 will not be counted toward the B.Ed. degree if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 4380****Developing a Philosophy of Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

A critical examination of some basic beliefs about what are the sensible, right and good things to do in promoting human learning, using the tools of philosophical reflection.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

**Note:** Education 4380 will not be counted toward the B.Ed. degree if it is taken prior to admission to the Bachelor of Education program.

**EDUCATION 4381****Ethics of Teaching***Credit hours: 3.00**Contact hours per week: 3-0-0*

Ethical problems arising in the context of teaching; a case study approach.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4391****Seminar in Educational Foundations (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Interdisciplinary study of specific topics relevant to educational foundations, dependent on student interest, need and available faculty.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4510****Advanced Practicum (Series)***Credit hours: 3.00**Other hours per term: 0-0-100*

Optional, intensive experience in the student's major or minor area of study. Approximately 100 hours of school experience arranged individually for each student.

*Prerequisite(s): Professional Semester II**Grading: Pass/Fail***EDUCATION 4520****Specialized Practicum (Series)***Credit hours: 3.00**Other hours per term: 0-0-100*

Optional, intensive experience in a specialized area of interest. Approximately 100 hours of school experience arranged individually for each student.

*Prerequisite(s): Professional Semester II**Grading: Pass/Fail***EDUCATION 4571****Elementary Education Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

An integrated five-course equivalent term consisting of two components: a half-time teaching internship in an elementary (K-6) school placement; and engagement in professional study under the direction of a faculty mentor, including reflective practice, exploration and discussion of selected topics and professional portfolio development. Students are assigned to schools full time.

*Prerequisite(s): Professional Semester II**Grading: Pass/Fail***EDUCATION 4572****Secondary Education Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

An integrated five-course equivalent term consisting of two components: a half-time teaching internship in a secondary (Gr. 7-12) school placement; and engagement in professional study under the direction of a faculty mentor, including reflective practice, exploration and discussion of selected topics and professional portfolio development. Students are assigned to schools full time.

*Prerequisite(s): Professional Semester II**Grading: Pass/Fail***EDUCATION 4576****Indigenous Education Internship (Fall)***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students are assigned to an elementary or secondary school placement in an Indigenous Education Setting.

*Prerequisite(s): Professional Semester II**Equivalent: Education 4573 (Native Education (Fall)) (prior to 2017/2018)**Grading: Pass/Fail*

**Note:** All students who are declared Indigenous Education majors must complete their Professional Semester III in this course.

**EDUCATION 4577****International Education Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students are assigned to an elementary or secondary school placement in an International setting.

*Prerequisite(s): Professional Semester II AND*

One of Education 4310, Education 4311, Education 4783, or Education 4920

*Equivalent: Education 4573 (International Education) (prior to 2017/2018)**Grading: Pass/Fail***EDUCATION 4578****Early Childhood Education Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students will complete an internship in an elementary (K-3) school placement.

*Prerequisite(s): Professional Semester II AND*

One of Education 4735 or Education 4738

*Equivalent: Education 4573 (Early Childhood Education) (prior to 2017/2018)**Grading: Pass/Fail***EDUCATION 4579****Niitsitapi Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students will complete an internship in an elementary (K-6) or secondary (7-12) school.

*Prerequisite(s): Professional Semester II AND*

Admission to the Faculty of Education in the Niitsitapi program

*Equivalent: Education 4573 (Niitsitapi) (prior to 2017/2018)**Grading: Pass/Fail***EDUCATION 4580****Career Education Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students will complete an internship in a school placement with emphasis on the teaching of Career Education.

*Prerequisite(s): Professional Semester II AND*

Completion of an Education course in career education

*Equivalent: Education 4573 (Career Education) (prior to 2017/2018)**Grading: Pass/Fail***EDUCATION 4581****Career and Technology Studies (CTS) - Trades Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students will complete an internship in a school placement with emphasis on the teaching of the CTS strands (Trades).

*Prerequisite(s): Professional Semester II AND*

Completion of Education 3700 (CTS Trades), in a strand related to the practicum placement

*Equivalent: Education 4573 (Career and Technology Studies (CTS) - Trades) (prior to 2017/2018)**Grading: Pass/Fail***EDUCATION 4582****Inclusive Education Internship (Spring)***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students will complete an internship in an elementary (K-6) school placement with an emphasis on inclusive education practices. Students will be eligible to receive an endorsement on their official transcript upon completion of a specialization.

*Prerequisite(s): Professional Semester II AND*

Completion of the four course options for students electing to complete a specialization in Inclusive Education

*Equivalent: Education 4573 (Special/ Inclusive Education (Spring)) (prior to 2017/2018)**Grading: Pass/Fail*

**Note:** All students who elect to complete a specialization in Inclusive Education must complete their Professional Semester III in this course.

**EDUCATION 4583****Technology in Education Internship***Credit hours: 15.00**Contact hours per week: 0-0-35*

Students will complete an internship in a school placement with emphasis on the use of technology in instruction. An endorsement will be placed on the official transcript upon completion of a specialization.

*Prerequisite(s): Professional Semester II AND Completion of the four course options for students electing to complete a specialization in Technology in Education*

*Equivalent: Education 4573 (Technology in Education) (prior to 2017/2018)*

*Grading: Pass/Fail*

**Note:** All students who elect to complete a specialization in Technology in Education must complete their Professional Semester III in this course.

**EDUCATION 4599****Professional Semester III Placeholder***Credit hours: 15.00*

This Placeholder course enables students completing a Professional Semester III to maintain continuing student status. Students who are eligible to register in the upcoming Professional Semester are required to enrol in the Placeholder course during registration. Once the Faculty of Education has completed course assignments, students are required to register themselves in the designated course(s). For student loan/scholarship enrolment verification purposes, 15.0 credit hours are attached to this Placeholder.

**EDUCATION 4702****Individualizing Instruction in the Regular Classroom***Credit hours: 3.00**Contact hours per week: 3-0-0*

Assessment and program planning for students with mild learning handicaps and for gifted students within the regular classroom. Principles, conditions and instructional practices relating to the educational progress of such students.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4703****Assessment for Individualized Educational Programming***Credit hours: 3.00**Contact hours per week: 3-0-3*

Evaluation of the educational abilities, deficits and achievement of atypical students in regular classrooms and segregated settings. Screening, formal and informal measures of achievement, skills, aptitude, performance, attitudes and behaviour. Includes a laboratory component. Relation of assessment to individual planning and instruction.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4709****Issues in Special Education (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Current issues in Special Education.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4726****Indigenous Culture and Psychological Perspectives in Human Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

Cultural and psychological perspectives in Indigenous Education. Relationship to contemporary psychological thought and therapies.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4727****Social Issues in Indigenous Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

Social issues affecting the education of Indigenous students, including the home and educational environment.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4729****Issues in Indigenous Education (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Current issues in Indigenous Education.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4735****Literacy and Learning in Early Childhood Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

Intensive theoretical and practical orientation to teaching and assessing literacy abilities in reading, writing, listening, speaking, viewing and representing with young children. Discusses changing views of reading, emergent literacy, language acquisition, schema and constructivist theory, phonemic awareness, comprehension and literature for literacy instruction.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4736****Family and Community Resources in Early Childhood Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

The environment in which children develop during their critical years. Role of the family and community resources in relationship to the school.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4737****Psychological Foundations of Early Childhood Education for Teachers***Credit hours: 3.00**Contact hours per week: 3-0-0*

A teacher-oriented study of child development from birth to puberty, significance of child development in the preschool and early-school years. Importance of directed teaching intervention strategies in language, motor skills and social behaviour for preschool and early-school students.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4738****Curriculum and Instruction in Early Childhood Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

Concepts of early childhood development relating to the curriculum content and methods of instructing young children.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4739****Issues in Early Childhood Education (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Current issues in Early Childhood Education.

*Prerequisite(s): Professional Semester I*



**EDUCATION 4760****Communication Technologies in the Curriculum***Credit hours: 3.00**Contact hours per week: 3-0-0*

Strategies for effective use of communication technologies in the classroom. Identification and development of educational resources and activities for integrating communication technologies in the curriculum.

*Prerequisite(s): Professional Semester I**Substantially Similar:*

*Education 5763 (prior to 2022/2023)*

**EDUCATION 4762****Problem Solving with Communication Technologies***Credit hours: 3.00**Contact hours per week: 3-0-0*

Teaching of problem-solving techniques and strategies with emphasis on communication technology-based approaches.

*Prerequisite(s): Professional Semester I**Substantially Similar:*

*Education 5762 (prior to 2022/2023)*

**EDUCATION 4764****The Internet and Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the services available on the Internet that are of particular interest to teachers and others interested in issues affecting education today.

*Prerequisite(s): Professional Semester I**Substantially Similar:*

*Education 5764 (prior to 2022/2023)*

**EDUCATION 4765****New Media and Learning***Credit hours: 3.00**Contact hours per week: 3-0-0*

A study of the educational value of New Media. Students will develop knowledge and skills to effectively integrate and discuss the role of New Media in learning. Topics include New Media applications, the value of New Media for learning, the development of curriculum-based projects, and principles of design and layout.

*Prerequisite(s): Professional Semester I**Substantially Similar:*

*Education 5765 (prior to 2022/2023)*

**EDUCATION 4766****Web-Based Learning***Credit hours: 3.00**Contact hours per week: 3-0-0*

The design and development of websites for the enhancement of personal learning. Students will create a number of websites that correspond to various topics of personal interest, and which incorporate a variety of psychological learning principles such as semantic mapping, notebook creation and journal writing.

*Prerequisite(s): Professional Semester I**Substantially Similar:*

*Education 5766 (prior to 2022/2023)*

**EDUCATION 4767****Web-Based Teaching***Credit hours: 3.00**Contact hours per week: 3-0-0*

The design and development of websites for instructional purposes. Students critically review web-based instructional sites, and create a website that corresponds to an instructional unit and which incorporates a variety of instructional design principles.

*Prerequisite(s): Professional Semester I**Substantially Similar:*

*Education 5767 (prior to 2022/2023)*

**EDUCATION 4769****Educational Issues in Communication Technologies (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Educational issues in communication technologies dependent on student interest, needs, and availability of faculty resources.

*Prerequisite(s): Professional Semester I**Substantially Similar:*

*Education 5769*

**EDUCATION 4782****Issues in School Librarianship (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Knowledge and skills required by teacher-librarians and the role of the school library in resource-based learning. Specific issues will be dependent on student interest, needs and availability of faculty.

*Prerequisite(s): Professional Semester II***EDUCATION 4783****Culturally Different Students***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploring issues dealing with culturally different students in the education system of the majority culture.

*Prerequisite(s): Professional Semester I***EDUCATION 4850****Special Topics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Content reflects the unique interests of students and instructors.

*Prerequisite(s): Professional Semester I*

*(Additional prerequisites may be specified, including any recommended background, for individual offerings)*

**EDUCATION 4920****Study Tour***Credit hours: 3.00*

A group tour in Canada or in a foreign country which enables students to broaden their educational studies by examining and/or experiencing other educational and/or cultural institutions and settings.

*Prerequisite(s): Professional Semester I**Grading: Pass/Fail***EDUCATION 4950****Professional Development Topics***Credit hours: 1.50**Other hours per term: 20-0-0*

This Professional Development course is a series of one-half term credit offerings (20 hours of instruction) designed to address current topics in Education and meet the specific needs of educators.

*Prerequisite(s): One of Professional Semester II or admissibility to the Diploma in Education program*

*Grading: Pass/Fail or letter grading, depending on the section offering-refer to the current Timetable for section offerings*

**Note:** Certification as a teacher is the normal prerequisite for admission to these courses. A maximum of two half-credit Professional Development courses (3.0 credit hours) may be credited toward the B.Ed. degree and a maximum of four such courses (6.0 credit hours) toward the M.Ed. degree. Registration fees are assessed on a full-cost recovery basis. Registration is through the Office of the Associate Dean, Faculty of Education.

**EDUCATION 495 I****Development Topics for the Diploma in Education (Series)***Credit hours: 1.50**Other hours per term: 20-0-0*

This Professional Development course is a series of one-half term credit offerings (20 hours of instruction) designed to meet the specific needs of students in the Diploma in Education program.

*Prerequisite(s): One of Professional Semester II or admissibility to the Diploma in Education program*

*Grading: Pass/Fail or letter grading, depending on the section offering-refer to the current Timetable for section offerings*

**Note:** Certification as a teacher is the normal prerequisite for admission to this course. A maximum of two half-credit Professional Development courses (3.0 credit hours) may be credited toward the B.Ed. degree and a maximum of four such courses (6.0 credit hours) toward the M.Ed. degree. Registration is through the Bridge or Student Enrolment and Registrar Services.

**EDUCATION 4980****Applied Studies***Credit hours: 3.00*

Using a suitable employment or volunteer experience as a basis, the student completes a project which relates the experience to the study of education. Students should initially contact the Applied Studies Coordinator for specific information.

*Prerequisite(s): Professional Semester I*

**EDUCATION 4990****Independent Study***Credit hours: 3.00*

The student undertakes to study independently a topic not covered under regular electives or special topics courses. The student works under the supervision of a faculty member to develop a proposal and the details of the study. Students should contact Student Program Services in the Faculty of Education for more information.

*Prerequisite(s): Professional Semester I*

**Engineering****(ENGG)****Faculty of Arts and Science****ENGINEERING 1100****The Engineering Profession I***Credit hours: 1.50**Contact hours per week: 1.5-0-0*

Introduction to the Pre-Engineering Program, study skills, cooperative education opportunities, engineering, and society. Students will also be introduced to local engineers and other professionals and will receive advice on choosing the right program when transferring to other universities.

*Grading: Pass/Fail*

**Note:** This course is only available to students enrolled in the Pre-Engineering Program.

**ENGINEERING 1600****Introduction to Engineering Design, Communication, and Profession***Credit hours: 3.00**Contact hours per week: 3-0-0*

Fundamental design process; communications; team work; the engineering disciplines, career fields; professional responsibilities of the engineer including elements of ethics, equity, concepts of sustainable development and environmental stewardship, public and worker safety and health considerations including the context of the Alberta Occupational Health and Safety Act.

*Corequisite(s): Writing 1200*

*Equivalent: Engineering 1850 (Introduction to Engineering Design, Communication, and Profession) (prior to 2020/2021)*

**ENGINEERING 2000****Engineering Statics***Credit hours: 3.00**Contact hours per week: 3-2-0*

Analysis of equilibrium in two-dimensional and three-dimensional systems. Analysis of statically determinate trusses, frames and machines. Centroids and centers of gravity. Analysis of forces and moments in beams.

*Corequisite(s): Mathematics 1565*

*Lib Ed Req: Science*

**ENGINEERING 2060****Engineering Mechanics***Credit hours: 3.00**Contact hours per week: 3-2-0*

Analysis of cables. Friction forces. Fluid statics. Moments of inertia. Kinematics of rigid bodies. Plane motion of rigid bodies, force and acceleration, momentum and energy principles.

*Prerequisite(s): Engineering 2000 AND Mathematics 1565*

*Corequisite(s): Mathematics 2565*

*Lib Ed Req: Science*

**ENGINEERING 2100****The Engineering Profession II***Credit hours: 1.50**Contact hours per week: 1.5-0-0*

Introduction to the Engineering profession, work opportunities, professional responsibilities and ethics, public safety, and health considerations. Students will also be exposed to environmental issues and strategies for sustainable development.

*Grading: Pass/Fail*

**Note:** This course is only available to students enrolled in the Pre-Engineering Program.

**ENGINEERING 2300****Engineering Design***Credit hours: 3.00**Contact hours per week: 3-3-0*

An introduction to design techniques, concepts and processes using examples drawn from a broad range of engineering disciplines. Definition of engineering design. The Design Process. Reporting and communicating. Understanding the problem. Functions and specifications. Finding answers, generating ideas, design alternatives. Managing the process. Sustainability in design. Ethics in design. Concurrent design processes and Design for X.

*Prerequisite(s): Engineering 1100 AND Mathematics 1410*

**English (ENGL)**  
Faculty of Arts and Science

**ENGLISH 1900**

**Introduction to Language and Literature**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introduction to the study of English language and literature, involving an exploration of various genres of literature and non-literary texts and requiring a series of critical assignments designed to encourage analytical reading, thinking and writing.

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2000**

**Survey of Canadian Literature**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Canadian literature from early exploration writings to the present in relation to historical and social contexts. Selected and representative works of such writers as Hearne, Moodie, Roberts, Birney, Munro and Atwood.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2100**

**Poetry**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Defining characteristics and fundamentals of poetry. This course familiarizes the student with the skills necessary to read poems, as well as the basic theories, literary terms and concepts found in responses, interpretations and critical analyses of them.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2200**

**Drama**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Defining characteristics and fundamentals of drama. This course familiarizes the student with the skills necessary to read plays, as well as the basic theories, literary terms and concepts found in responses, interpretations and critical analyses of them.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2300**

**Prose Fiction**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Defining characteristics and fundamentals of prose. This course familiarizes the student with the skills necessary to read fiction, as well as the basic theories, literary terms and concepts found in responses, interpretations and critical analyses of it.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2400**

**Survey of English Literature I**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

English literature from its beginnings to 1800 in relation to historical and social contexts. Selected and representative works of such writers as Chaucer, Spenser, Shakespeare, Donne, Milton, Dryden, Pope and Swift.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2450**

**Survey of English Literature II**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

English literature from 1800 to the present in relation to historical and social contexts. Selected and representative works of such writers as Blake, Wordsworth, Keats, Tennyson, Browning, Woolf, Joyce and Auden.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2500**

**Survey of American Literature I**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

American literature from its Puritan beginnings to 1900 in relation to historical and social contexts. Selected and representative works of such writers as Mather, Bradstreet, Hawthorne, Melville, Whitman, Dickinson and James.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2550**

**Survey of American Literature II**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

American literature from 1900 to the present in relation to historical and social contexts. Selected and representative works of such major writers as Pound, Williams, Faulkner, Hurston, Plath and Morrison.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2605/INDIGENOUS STUDIES 2605**

**Introduction to Indigenous Literature**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of Indigenous literature with a focus on literature by Indigenous authors.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010*

*Recommended Background: English 1900*

*Equivalent: Indigenous Studies 2600 (prior to 2022/2023); Native American Studies 2600 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2610**

**Survey of Children's Literature**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Children's literature from its beginnings in both the oral and written traditions to the present, in light of cultural assumptions such as gender, class and literary fashion. Selected and representative works of such writers as Andersen, Carroll, Twain, Milne, Tolkien and Montgomery.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2625****Survey of World Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

A range of literary texts from the non-Western world in relation to historical, political and social contexts. Emphasis on theoretical concepts such as nationalism, cultural translation and intersectionality. Selected and representative works of such writers as Marquez, Ishiguro, Tolstaya, Kincaid, Lahiri and Bulawayo.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Equivalent: English 2700 (Survey of World Literature) (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2700****Surveys of Literature (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Surveys of literature, such as World Literature or Women's Literature. Offerings vary depending upon student interest and available faculty.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2720****Approaches to Literature (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings explore approaches to literature such as the question of canon or the influence of historical contexts (nationalism, war, revolution and so forth) on literary production. Offerings vary depending upon student interest and available faculty.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2800****Rhetoric***Credit hours: 3.00**Contact hours per week: 3-0-0*

Rhetoric as a pragmatic art and classical discipline that develops the student's use of argumentative discourse and other means of persuasion in written and oral forms. Emphasis on historical as well as modern models of rhetoric and on analyses and detection of rhetorical tropes, techniques and fallacies.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 2810****Grammar***Credit hours: 3.00**Contact hours per week: 3-0-0*

The basic structures of English: word classes, sentence elements and basic aspects of syntax and morphology. Primary emphasis on descriptive grammar, though some attention will be paid to prescriptive approaches.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

**ENGLISH 3001****Canadian Poetry***Credit hours: 3.00**Contact hours per week: 3-0-0*

Development of Canadian poetry from the late 18th Century to the present with emphasis on the poetry of the past half-century.

*Prerequisite(s): One of English 2000 or English 2100*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 7 - Canadian and Post-Colonial*

**ENGLISH 3002****Contemporary Canadian Drama***Credit hours: 3.00**Contact hours per week: 3-0-0*

The significance and variety of forms in Canadian theatre. Selected and representative works of such writers as Tremblay, Fennario, Reaney, Pollock, Highway and MacDonald.

*Prerequisite(s): One of English 2000, English 2200, Drama 2120, or Drama 2130*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 7 - Canadian and Post-Colonial*

**ENGLISH 3008****Canadian Literature, 1867 - 1914***Credit hours: 3.00**Contact hours per week: 3-0-0*

The historical context of Canadian literature written between Confederation and World War I. An examination of developing notions of Canadian identity and citizenship in poetry and prose written for both adults and children.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 7 - Canadian and Post-Colonial*

**ENGLISH 3010****Literary Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey and examination of major and recurrent issues and questions concerning the nature, function and value of literature and art from Plato to the present day.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English AND Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 1 - Theory, Language and Creative Writing*

**ENGLISH 3060****Gender and Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

A study of gender issues in contemporary culture and literature, including feminism, construction of masculinity, and gender and ethnicity. Both theoretical and literary texts will be examined in the course.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 1 - Theory, Language and Creative Writing*

**ENGLISH 3070****Imperialism and Nationalism in Children's Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the relationship between imperialism, nationalism and children's literature in the nineteenth and twentieth centuries. Selected and representative works of such writers as Ingalls Wilder, Kipling and Montgomery.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 1 - Theory, Language and Creative Writing

**ENGLISH 3201****Elizabethan and Jacobean Drama***Credit hours: 3.00**Contact hours per week: 3-0-0*

Representative works of important dramatists (excluding Shakespeare) of the Elizabethan and Jacobean periods, such as Kyd, Marlowe, Jonson, Middleton and Webster.

*Prerequisite(s):* One of English 2200, English 2400, Drama 2120, or Drama 2130

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 3 - Renaissance

**ENGLISH 3301****Rise of the Novel***Credit hours: 3.00**Contact hours per week: 3-0-0*

A study of the early development of this genre in English and its audience. Novels throughout the formative eighteenth century (and slightly beyond) that are representative, popular and/or canonical.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 4 - Eighteenth Century and Romantic

**ENGLISH 3302****19th-Century British Novel***Credit hours: 3.00**Contact hours per week: 3-0-0*

Development of the novel in England during the nineteenth century. Examination of issues such as heredity, family, courtship and the place of the individual in society as illustrated by works of representative novelists such as Austen, Brontë, Eliot, Dickens, Thackeray and Hardy.

*Prerequisite(s):* One of English 2300, English 2400, or English 2450

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 5 - Nineteenth Century

**ENGLISH 3310****Restoration and 18th-Century Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the literature of various genres of the late seventeenth and eighteenth centuries, a period (1660-1800) critically transitional in the movement of world views and literary modes that are late Medieval and Renaissance to those that evolve into the post-Romantic and recognizably Modern.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 4 - Eighteenth Century and Romantic

**ENGLISH 3350****Romanticism***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the literature of various genres that characterizes the literary, ideological and social/political phenomenon of Romanticism, from the 'cult of the sublime' of the later eighteenth century through to the full-blown Romantic writing of the early nineteenth century and the advent of the Victorian period.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 4 - Eighteenth Century and Romantic

**ENGLISH 3401****Medieval Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected and representative Middle English poetry, prose and drama of the twelfth to fifteenth centuries.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 2 - Old and Middle English

**ENGLISH 3410****17th-Century Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

English poetry and prose of the seventeenth century. Selected and representative works of such writers as Donne, Jonson, Herbert, Vaughan, Browne, Marvell, Bunyan and Milton.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 3 - Renaissance

**ENGLISH 3450****Old English***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of Old English language and literature. Instruction in basic Old English grammar and syntax, translation practice, and an introduction to the language's literary and historical context.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 2 - Old and Middle English

**ENGLISH 3500****Victorian Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the various genres, including poetry, non-fiction prose, short story and drama, that contributed to the literature of the Victorian era. Selected and representative works of such writers as Carlyle, Tennyson, the Brownings, Hopkins, Rossetti, Eliot, Doyle and Wilde.

*Prerequisite(s):* One of English 2100, English 2200, English 2300, English 2400, or English 2450

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 5 - Nineteenth Century

**ENGLISH 3601****Chaucer***Credit hours: 3.00**Contact hours per week: 3-0-0*

The writings of Geoffrey Chaucer, including selected minor works and major works such as *The Canterbury Tales* and *Troilus and Criseyde*.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 2 - Old and Middle English

**ENGLISH 3602****Shakespeare***Credit hours: 3.00**Contact hours per week: 3-0-0*

Representative Shakespearean drama. The structure, language and themes of his comedies, tragedies, histories and romances.

*Prerequisite(s):* One of English 2200, English 2400, Drama 2120, or Drama 2130

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 3 - Renaissance

## ENGLISH 3605/INDIGENOUS STUDIES 3605

### Indigenous Literature - Advanced

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Indigenous philosophy and thought as reflected in contemporary Indigenous literature.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010 AND One of English 2605/ Indigenous Studies 2605 or one course (3.0 credit hours) in English at the 2000 level*

*Recommended Background: Indigenous Studies 2000*

*Equivalent: Indigenous Studies 3600 (prior to 2022/2023); Native American Studies 3600 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 7 - Canadian and Post-Colonial*

## ENGLISH 3610 Modernism

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An examination of the major impulse in Western art that emerged in the years between 1880 and 1945. The ways in which literature sought to respond to the modern world by adapting aesthetic innovations developed across a variety of disciplines.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 6 - Twentieth Century and Contemporary*

## ENGLISH 3620 Modern Drama

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The major movements in European and American theatre in the first half of the twentieth century. The significance and variety of forms in the theatre. Selected and representative works of such writers as Ibsen, Strindberg, Synge, Brecht, O'Neill and Pirandello.

*Prerequisite(s): One of English 2200, English 2450, English 2550, Drama 2120, or Drama 2130*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 6 - Twentieth Century and Contemporary*

## ENGLISH 3630 Modern Novel

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Fiction written in Europe and the United States during the first half of the twentieth century. The formal innovations that defined prose in this period and the thematic preoccupations of major novelists in the modern world. Selected and representative works of such writers as Conrad, Stein, Joyce, Faulkner, Dos Passos and Lawrence.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 6 - Twentieth Century and Contemporary*

## ENGLISH 3650 Contemporary Literature

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An examination of interesting and innovative novelists, poets and playwrights writing from the 1970s to the present on a range of contemporary issues and ideas.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 6 - Twentieth Century and Contemporary*

## ENGLISH 3660 Contemporary Drama

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Selected plays of dramatists in Europe and the United States from mid-century to the present. Emphasis on distinguishing developments in the contemporary theatre. Selected and representative works of such writers as Beckett, Albee, Genet, Churchill, Hwang and Friel.

*Prerequisite(s): One of English 2200, English 2450, English 2550, Drama 2120, or Drama 2130*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 6 - Twentieth Century and Contemporary*

## ENGLISH 3700 Genres and Forms (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

General interest areas in literature, such as science fiction, the short story or autobiography. Offerings vary depending upon student interest and available faculty.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Fine Arts and Humanities*

## ENGLISH 3800 Creative Writing

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A workshop for students with some experience in creative writing. Focus placed on in-class discussion of works in progress with the goal of completing a portfolio.

*Prerequisite(s): One of English 1900 or a previous course (3.0 credit hours) in English AND Second-year standing (a minimum of 30.0 credit hours) AND Submission of writing samples AND Interview*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 1 - Theory, Language and Creative Writing*

## ENGLISH 3810 Contemporary Canadian Literature

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The work of Canadian writers who have achieved world-wide recognition in recent decades, as well as others who have added significantly to our knowledge of ourselves and this country. Multiculturalism, history and intertextuality, ethnicity, aboriginal issues, feminism, post-colonialism and postmodernism in the Canadian context.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 7 - Canadian and Post-Colonial*

## ENGLISH 3860 Post-Colonial Literature

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introduction to significant issues, perspectives and voices within the study of post-colonial literatures in English. The course will include literature from such countries and regions as Africa, Australia, Canada, the Caribbean, India and the Pacific Rim.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in English*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 7 - Canadian and Post-Colonial*

**ENGLISH 3901****History of the English Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

Nature and development of the English language from its beginnings to the present. Basic features of the three main stages in the language's development: Old, Middle and Modern English. Internal and external forces that brought about change.

*Prerequisite(s):* Two 2000-level courses (6.0 credit hours) in English

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 1 - Theory, Language and Creative Writing

**ENGLISH 4000****Seminars in Canadian and Post-Colonial Literature (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of themes, issues or individual works of Canadian or post-Colonial literatures, or both. Offerings vary depending upon student interest and available faculty.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Fine Arts and Humanities

*List/Subfield:* English Subfield 7 - Canadian and Post-Colonial

**ENGLISH 4400****Seminars in English Literature and Language (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of subjects such as contemporary literary theory, new developments in literary analysis, modern autobiography, non-fictional contexts for literary movements and the history of the book. Offerings vary depending upon student interest and available faculty.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Fine Arts and Humanities

**ENGLISH 4600****Individual Authors (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of an individual author. Offerings vary depending on student interest and available faculty.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Fine Arts and Humanities

**ENGLISH 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct research, report orally and submit a report in the form of an Undergraduate Thesis which will be made publicly available.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.30 or higher AND

A minimum of eight courses (24.0 credit hours) in English AND

Application to the Department of English

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

### English for Academic Purposes (EAP) Not Affiliated

**ENGLISH FOR ACADEMIC PURPOSES 0110****Pre-Intermediate Reading and Writing***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will develop and master grammatically correct sentences leading into short paragraph writing and reading. Students will be introduced to academic reading and writing through the comprehension and creation of short articles, paragraphs and narrative stories.

*Prerequisite(s):* A minimum score of 4 in the IELTS Reading and Writing bands

OR

Results of EAP Placement Test

**ENGLISH FOR ACADEMIC PURPOSES 0111****Pre-Intermediate Communication (Listening and Speaking)***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will deliver and respond to brief academic presentations, and engage in short responsive discussions. Students will work towards identifying main ideas in academic discourse and answering 'why' questions and engage in short English discourse on class topics. Students will be expected to deliver several short presentations throughout the term focusing on organisation and pronunciation.

*Prerequisite(s):* Minimum score of 4 in the IELTS Listening and Speaking bands  
OR  
Results of EAP Placement Test

**ENGLISH FOR ACADEMIC PURPOSES 0120****Intermediate Reading and Writing***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will write and read quality paragraphs in English. Extra practice in vocabulary and grammar development will be conducted to develop confidence and competence in both reading and writing. In this course, students will critically examine a variety of readings that will be encountered in a university setting. Text types include scientific articles, newspaper and magazine articles, information booklets, editorials, short stories and various other literary forms.

*Prerequisite(s):* A minimum grade of 70% in EAP 0110

OR

A score of 4.5 in the IELTS Reading and Writing bands

OR

Results of EAP Placement Test

**ENGLISH FOR ACADEMIC PURPOSES 0121****Intermediate Communication (Listening and Speaking)***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will listen to brief academic lectures, engage in discussions, and deliver longer presentations. Students will take notes from lectures in order to identify and share key vocabulary, and to engage in discussion using critical thinking skills. This course will focus on the introduction of academic classroom discourse with a focus on pronunciation.

*Prerequisite(s):* A minimum grade of 70% in EAP 0111  
OR  
A minimum score of 4.5 in the IELTS Listening and Speaking bands  
OR  
Results of EAP Placement Test

**ENGLISH FOR ACADEMIC PURPOSES 0130****High Intermediate Reading and Writing***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will improve sentence writing ability, demonstrate effective application of the writing process and writing strategies, develop paragraph reading and writing skills through the exploration and practice of particular rhetorical styles, investigate essay reading and writing, and explore the relationships between writing and technology and the potential of technology in developing communicative writing skills. The course is also organized to support and develop learners' academic reading skills around two broad goals: to develop and expand reading comprehension skills, and to integrate new ideas based on knowledge and experiences.

*Prerequisite(s):* A minimum grade of 70% in EAP 0120  
OR  
A score of 5.0 in the IELTS Reading and Writing bands  
OR  
Results of EAP Placement Test

**ENGLISH FOR ACADEMIC PURPOSES 0131****High Intermediate Communication (Listening and Speaking)***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will listen to longer lectures, engage in academic discussions, and deliver multiple researched presentations, with the use of visual aids. Students will take notes from lectures in order to identify and share key ideas, and to engage in discussion using critical thinking skills. This course will focus on academic classroom discourse with a focus on pronunciation.

*Prerequisite(s):* A minimum grade of 70% in EAP 0121  
OR  
A minimum score of 5 in the IELTS Listening and Speaking bands  
OR  
Results of EAP Placement Test

**ENGLISH FOR ACADEMIC PURPOSES 0140****Advanced Reading and Writing***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will improve reading and writing skills by practicing essay structures that are commonly used in English essay writing; understand the reading and writing processes; make use of a variety of reading and writing strategies; improve fluency and accuracy in academic reading and writing through practice; improve essay-writing skills and reading comprehension skills through teacher, self and peer work/editing and feedback; practice APA writing format; and engage in research writing, including choosing a topic, identifying audience, beginning to write, supporting ideas with in-text citations, summarizing, paraphrasing, and referencing. Students will also identify and explain points of view, personal attitudes and emotions in editorials/articles, personal essays, and fictional writing.

*Prerequisite(s):* A minimum grade of 70% in EAP 0130  
OR  
A score of 5.5 in the IELTS Reading and Writing bands  
OR  
Results of EAP Placement Test

**ENGLISH FOR ACADEMIC PURPOSES 0141****Advanced Communication (Listening and Speaking)***Credit hours: 0.00**Contact hours per week: 10-0-0*

Students will listen and respond to academic lectures and prepare presentations on researched topics. During the course students will take notes on key ideas in extended academic lectures in order to summarise, restate and discuss key ideas in both teacher and student lead discussions with a focus on pronunciation. Students will present fluent academic researched presentations to a formal audience with the advanced use of visual aids.

*Prerequisite(s):* A minimum grade of 70% in EAP 0131  
OR  
A minimum score of 5.5 in the IELTS Listening and Speaking bands  
OR  
Results of EAP Placement Test

**Environmental Science****(ENVS)****Faculty of Arts and Science****ENVIRONMENTAL SCIENCE 0520**  
**Introduction to Environmental Science***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the scientific method and all aspects of the natural environment: the geological and biological history of the Earth; weather and climate; concepts of ecology; energy and nutrients in ecosystems; biodiversity; human activities; services provided by ecosystems; environmental justice; environmental challenges such as development, toxins, waste, pollution, and overexploitation; environmental data; and current issues regarding our shared environment.

*Prerequisite(s):* Admission to the Indigenous Student Success Cohort

*Equivalent:* Environmental Science 0500 (prior to 2016/2017)

*Lib Ed Req:* Science



### ENVIRONMENTAL SCIENCE 2000 Fundamentals of Environmental Science

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An overview of the fundamentals of environmental science, with a focus on physical and living systems, processes and the ways in which humans depend on, interact with and affect these systems. Topics may include, but are not limited to, current environmental concerns, such as human population growth; human changes to biogeochemical cycles; and institutional responses to resource use and pollution.

*Prerequisite(s):* One 1000-level course (3.0 credit hours) in Biology, Chemistry, Geography, or Physics  
OR  
One of admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science or admission to the Post-Diploma B.Sc. in Agricultural Studies

*Lib Ed Req:* Science

### ENVIRONMENTAL SCIENCE 3000 Selected Studies in Environmental Science I (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0 or 3-3-0*

Studies in selected areas of Environmental Science. Specific offerings are generally interdisciplinary.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

**Note:** May require laboratories, tutorials or both.

### ENVIRONMENTAL SCIENCE 3440/ GEOGRAPHY 3440

#### Wetlands

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Wetlands are integral elements in many Canadian environments, with fragile but dynamic ecosystems, high levels of biodiversity, and complex hydrology and geomorphology. This course will explore wetland ecosystems, processes, classification (using ground and geospatial methods for the non-expert), and policy frameworks, and will also address critical issues of reclamation, value, and distribution.

*Prerequisite(s):* One of Geography 2090, Geography 2300, or Environmental Science 2000

*Equivalent:* Geography 3850 (Wetlands) (prior to 2020/2021); Environmental Science 3000 (Wetlands) (prior to 2020/2021)

*Lib Ed Req:* Science

### ENVIRONMENTAL SCIENCE 3999 Collaborative Registration Placeholder

*Credit hours: 0.00*

This is a placeholder registration for students admitted to the Bachelor of Science (B.Sc.) with a major in Environmental Science who are enrolled in the Technical Studies Term at an associated college.

**Note:** No fees are assessed for this registration.

### ENVIRONMENTAL SCIENCE 4000 Selected Studies in Environmental Science II (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0 or 3-3-0*

Studies in selected areas of Environmental Science. Specific offerings are generally interdisciplinary and may involve natural science and/or social science components.

*Prerequisite(s):* One of Environmental Science 2000 or admission to the Post-Diploma B.Sc. in Environmental Science AND Additional prerequisites will be specified (including any recommended background) for individual offerings

**Note:** May require laboratories, tutorials or both.

### ENVIRONMENTAL SCIENCE 4995 Undergraduate Thesis

*Credit hours: 6.00*

*Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND  
A cumulative GPA of 3.30 or higher

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

### Finance (FINC) Dhillon School of Business

#### FINANCE 3040

##### Finance

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Corporate financial decision-making and analysis. Capital budgeting, including net present value and internal rate of return measures for project evaluation. Other topics including cost of capital and long-term financing.

*Prerequisite(s):* Economics 1010 AND Accounting 2400 AND  
One of Statistics 1770 or [Health Science 3450/ Psychology 3450 and admission to the B.HSc/B.Mgt. Combined Degrees program] OR  
Admission to the Post-Bachelor Certificate in Advanced Accounting

*Recommended Background:* Economics 1012

*Equivalent:* Management 3040 (prior to 2021/2022)

**Note:** Students admitted to the Finance Diploma may take Accounting 2400 as a corequisite with Finance 3040.

**FINANCE 3406****Entrepreneurial Finance***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines the role financial management plays in the development and sustainability of small business through the use of financial theories, tools, and management techniques. There will be an emphasis on financial resources, resource allocation, risk, and optimization in value creation; within the context of growing a business through a continuous cycle of incremental improvements across a wide range of business activities. The course will utilize case studies, group work, and financial professionals who will provide scenarios for students who plan to own, operate, or provide professional services to a small business.

*Mutually Exclusive:**Management 3406 (prior to 2022/2023)**Recommended Background:**15 university-level courses (a minimum of 45.0 credit hours)**Equivalent: Management 3406 (prior to 2022/2023)***FINANCE 3412****Fundamentals of Investments***Credit hours: 3.00**Contact hours per week: 3-0-0*

Risk and return analysis, investment alternatives, security analysis (technical and fundamental), efficient markets, diversification, sources of investment information, and basic theoretical models including the portfolio model, the capital asset pricing model and the arbitrage pricing model.

*Prerequisite(s): Finance 3040 AND**Economics 1012 AND One of Economics 2900 or Statistics 2780**Equivalent: Management 3412 (prior to 2021/2022)***FINANCE 3441****Financial Analysis***Credit hours: 3.00**Contact hours per week: 3-0-0*

Use of fundamental methods and processes to assess and understand the historical financial condition of a firm; the assessment and understanding will be used to interpret the direction of the firm and estimate its future financial performance.

*Prerequisite(s): Finance 3040**Equivalent: Management 3441 (prior to 2021/2022)***FINANCE 3460****Global Financial Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of international institutions and markets including: the International Monetary Fund, the World Bank, foreign exchange markets and Eurocurrency markets. The financial management of international business operations, such as: export financing, foreign exchange transactions, long-term and short-term financing and country risk analysis.

*Prerequisite(s): Finance 3040 AND**Economics 1012**Equivalent: Management 3460 (prior to 2021/2022)***FINANCE 3470****Corporate Finance***Credit hours: 3.00**Contact hours per week: 3-0-0*

Capital structure theory, dividend policy, introduction to risk and return, raising capital in debt and equity markets, short-term financial management, cost of capital computations, and mergers and acquisitions.

*Prerequisite(s): Finance 3040 AND**Economics 1012**OR**Admission to the Post-Bachelor Certificate in Advanced Accounting**Corequisite(s): One of Economics 2900 or Statistics 2780**OR**Admission to the Post-Bachelor Certificate in Advanced Accounting**Equivalent: Management 3470 (prior to 2021/2022)***FINANCE 3475/AGRICULTURAL ENTERPRISE MANAGEMENT 3475**  
**Agricultural Finance and Markets***Credit hours: 3.00**Contact hours per week: 3-0-0*

Financing and business performance of agricultural operations and markets. Credit analysis and requirements, loan pricing, farm grants, and the Canadian Agricultural Loans Act program. Organization and operating principles of agricultural commodity markets, including hedging strategies and risk management.

*Prerequisite(s): One of Agricultural Enterprise**Management 2600 or Finance 3040**Equivalent: Management 3475 (prior to 2021/2022); Management 3850 (Agricultural Finance and Markets) (prior to 2018/2019)***FINANCE 3480****Personal Finance***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of personal financial management using cases and real life examples. Topics will include personal banking; life, disability and medical insurance; property and liability insurance; pensions and RRSPs; retirement planning; investments; mutual funds; wills and trusts; mortgage and loan concepts; financial planning and financial planners.

*Prerequisite(s): Economics 1010 AND**Economics 1012 AND**Accounting 2400 AND**One of Statistics 1770 or**[Health Science 3450/**Psychology 3450 and**admission to the B.HSc/B.Mgt. Combined Degrees program]**Equivalent: Management 3480 (prior to 2021/2022)***FINANCE 3490****FinTech***Credit hours: 3.00**Contact hours per week: 3-0-0*

The purpose of this course is to provide students with an opportunity to explore how technological innovation is driving evolution in finance. Students will gain an appreciation for: how technology is transforming lending, personal finance, crowd-funding, business financing, payments and retail transactions, equity, trading and investment applications, the impact of technology on governance and regulation with the financial sector and examine cryptocurrencies and their impact on the finance industry and economy. It will provide an overview of innovation in finance and an introduction to FinTech, the main trends in FinTech and FinTech ecosystem and FinTech innovation. We will examine how innovation and technology in finance have changed personal finance, payments, lending, capital markets, wealth management, regulation compliance, insurance, and money transfer sectors.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)**Recommended Background:**Finance 3040 or a strong background in Math or Science**Equivalent: Management 3850 (Finance and Innovation) (prior to 2021/2022)*

**FINANCE 3600****Machine Learning in Business and Finance***Credit hours: 3.00**Contact hours per week: 3-0-0*

Technology has undeniably changed how business, financial markets and institutions function. The purpose of this course is to provide students with an opportunity to explore how machine learning is driving evolution in business and finance. Students will gain an appreciation for unsupervised, supervised and reinforcement learning in business and finance. Students will gain an understanding of ML issues for society such as data privacy, biases, ethics, transparency and legal issues.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Finance 3850 (Machine Learning) (prior to 2022/2023)

**FINANCE 3620****Blockchain Applications in Business***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course introduces students to blockchain concepts and tools developed and applied to business. Using case studies, practical problems, and a lucid presentation, the course focuses on planning, analyzing, and controlling business performance in a decentralized manner with horizontal structure. Students will learn to address structural changes in business organization, covering important topics such as decentralized autonomous organization, distributed ledger technology and consensus algorithms.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Management 3850 (Blockchain Application for Business) (prior to 2021/2022);  
Management 3850 (Blockchain Application in Business) (prior to 2022/2023)

**FINANCE 4421****Financial Institutions and Markets***Credit hours: 3.00**Contact hours per week: 3-0-0*

The Canadian financial system governing capital flows between borrowers and lenders; financial institutions and other participants in the financial system; the financial markets.

*Prerequisite(s):* Finance 3470

*Equivalent:* Management 4421 (prior to 2021/2022)

**FINANCE 4430****Financial Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Financial management and decision-making in the corporate environment. Application of current theories and techniques.

Extensive use of case discussions.

*Prerequisite(s):* Finance 3412 AND Finance 3470

*Equivalent:* Management 4430 (prior to 2021/2022)

**FINANCE 4451****Derivative Securities Markets***Credit hours: 3.00**Contact hours per week: 3-0-0*

Derivative securities and their uses.

Includes discussion of options, futures, swaps and their uses in risk management.

*Prerequisite(s):* Finance 3412 AND Finance 3470

*Equivalent:* Management 4451 (prior to 2021/2022)

**FINANCE 4460****Trading and Portfolio Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course first introduces students to interactive trading of financial instruments where students can learn the principles of price discovery. The second part of the course covers the topics of equity valuation, portfolio management, and portfolio evaluation. Through taking this course, students will develop practical skills in trading financial securities, conducting company analysis, managing investment portfolio, and evaluating portfolio performance.

*Prerequisite(s):* Finance 3412 AND Finance 3470 AND One of Economics 2900 or Statistics 2780

*Equivalent:* Management 4460 (prior to 2021/2022)

**FINANCE 4470****Student Managed Investment Fund***Credit hours: 0.00**Contact hours per week: 1.5-1.5-0*

Students are provided a unique opportunity to gain practical experience in investment analysis and portfolio management to prepare them for careers in the investment industry. Students will invest real money to generate real performance. The Student Managed Investment Fund is a two-part course offered over consecutive fall to spring terms, or spring to fall terms.

*Prerequisite(s):* One of Economics 2900 or Statistics 2780 AND Finance 3412 with a minimum final grade of B AND a minimum cumulative GPA of 3.30

*Corequisite(s):* Finance 3470

*Recommended Background:*

Past investment experience

*Equivalent:* Management 4470 (prior to 2021/2022)

**Note:** Finance 4470 and 4471 must be taken in sequence, in consecutive fall > spring or spring > fall terms, in order to receive full course credit. In the first term, students will register in Finance 4470, with 0.0 credit hours and 1.5 billing hours, and will be given an 'X' grade at the end of that term. In the following spring or fall term, students will register in Finance 4471, with 3.0 credit hours and 1.5 billing hours. At the end of the second term, students will be given a final letter grade for Finance 4471. Students will self-register in Finance 4470 and Finance 4471. Students who do not meet the Finance 4470 requirements relating to a minimum cumulative GPA of 3.30 and a minimum final grade of B in Finance 3412, will be reviewed by the Instructor on case-by-case basis (where registration in Finance 4470 will be allowed only when a prerequisite waiver is approved).

**FINANCE 4471****Student Managed Investment Fund***Credit hours: 3.00**Contact hours per week: 1.5-1.5-0*

Students are provided a unique opportunity to gain practical experience in investment analysis and portfolio management to prepare them for careers in the investment industry. Students will invest real money to generate real performance. The Student Managed Investment Fund is a two-part course offered over consecutive fall to spring terms, or spring to fall terms.

*Prerequisite(s): Finance 4470**Recommended Background:**Past investment experience**Equivalent: Management 4471 (prior to 2021/2022)*

**Note:** *Finance 4470 and 4471 must be taken in sequence, in consecutive fall > spring or spring > fall terms, in order to receive full course credit. In the first term, students will register in Finance 4470, with 0.0 credit hours and 1.5 billing hours, and will be given an 'X' grade at the end of that term. In the following spring or fall term, students will register in Finance 4471, with 3.0 credit hours and 1.5 billing hours. At the end of the second term, students will be given a final letter grade for Finance 4471. Students will self-register in Finance 4470 and Finance 4471. Students who do not meet the Finance 4470 requirements relating to a minimum cumulative GPA of 3.30 and a minimum final grade of B in Finance 3412, will be reviewed by the Instructor on case-by-case basis (where registration in Finance 4470 will be allowed only when a prerequisites waiver is approved).*

**Fine Arts****(FA)****Faculty of Fine Arts****FINE ARTS 3001****Co-op Work Experience I***Credit hours: 0.00*

Co-op Work Experience I requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and Employer, and complete a Work Term report graded by an assigned faculty member.

*Prerequisite(s): Admission to the Co-operative Education program**Grading: Pass/Fail*

**Note:** *Fine Arts 3001 cannot be taken concurrently with an Applied Studies course.*

**FINE ARTS 3002****Co-op Work Experience II***Credit hours: 0.00*

Co-op Work Experience II requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and Employer, and complete a Work Term report graded by an assigned faculty member.

*Prerequisite(s): Fine Arts 3001**Grading: Pass/Fail*

**Note:** *Fine Arts 3002 cannot be taken concurrently with an Applied Studies course.*

**FINE ARTS 3003****Co-op Work Experience III***Credit hours: 0.00*

Co-op Work Experience III requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and Employer, and complete a Work Term report graded by an assigned faculty member.

*Prerequisite(s): Fine Arts 3002**Grading: Pass/Fail*

**Note:** *Fine Arts 3003 cannot be taken concurrently with an Applied Studies course.*

**FINE ARTS 3004****Co-op Work Experience IV***Credit hours: 0.00*

Co-op Work Experience IV requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and Employer, and complete a Work Term report graded by an assigned faculty member.

*Prerequisite(s): Fine Arts 3003**Grading: Pass/Fail*

**Note:** *Fine Arts 3004 cannot be taken concurrently with an Applied Studies course.*

**FINE ARTS 3005****Co-op Work Experience V***Credit hours: 0.00*

Co-op Work Experience V requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and Employer, and complete a Work Term report graded by an assigned faculty member.

*Prerequisite(s): Fine Arts 3004**Grading: Pass/Fail*

**Note:** *Fine Arts 3005 cannot be taken concurrently with an Applied Studies course.*

**FINE ARTS 3006****Co-op Work Experience VI***Credit hours: 0.00*

Co-op Work Experience VI requires the student to complete a Work Term successfully, be evaluated by the Co-op Coordinator and Employer, and complete a Work Term report graded by an assigned faculty member.

*Prerequisite(s): Fine Arts 3005**Grading: Pass/Fail*

**Note:** *Fine Arts 3006 cannot be taken concurrently with an Applied Studies course.*

**FINE ARTS 3200****Study Tour (Series)***Credit hours: 3.00*

A group tour in Canada or in a foreign country that enables students to broaden their educational studies by examining and/or experiencing other educational and/or cultural institutions and settings.

*Prerequisite(s): Permission of Faculty**Lib Ed Req: Fine Arts and Humanities***FINE ARTS 4500/HEALTH SCIENCES 4500****Global Health, Fine Arts, and Social Change***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will introduce students to the creation of social change using the arts as a strategy to address global health challenges, with an emphasis on sub-Saharan Africa. Students will examine contextual aspects of and influences on health and health care. Students will gain basic skills and experience in selected fine arts (e.g., theatre, music) and will explore their application to culturally safe health promotion initiatives.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Lib Ed Req: Fine Arts and Humanities*

## FINE ARTS 4510/HEALTH SCIENCES 4510

### Global Health and Arts for Change Field Study

Credit hours: 3.00

Other hours per term: 0-0-120

Students will spend approximately four weeks in Malawi, a Southern African country, where they will interact with health care providers and community members in rural and urban areas to gain firsthand knowledge and understanding of the social, political, human rights, cultural and economic influences that contribute to the health status of Malawian citizens. Students will assist with the development and implementation of arts-based primary health care strategies to address these health concerns. Students will also have the opportunity to reflect on their roles and responsibilities related to global citizenship.

Prerequisite(s): Health Sciences 4500/Fine Arts 4500

Lib Ed Req: Fine Arts and Humanities

**French (FREN)**  
Faculty of Arts and Science

## FRENCH 1000

### Beginners' French I

Credit hours: 3.00

Contact hours per week: 3-1-0

Fundamentals of spoken and written French. Use of the language laboratory.

Lib Ed Req: Fine Arts and Humanities

**Note:** For students with little or no knowledge of French. To confirm enrolment and placement, all students must complete the French Student Information Form and then, if required, the placement test, before the first day of classes. Credit for French 1000 will not normally be granted to students with French 30, 30-6Y, 30-9Y, 31 or equivalent. Students may be able to take this course for credit with permission of the Department of Modern Languages if high school French courses were completed more than five years ago.

## FRENCH 1100

### Beginners' French II

Credit hours: 3.00

Contact hours per week: 3-1-0

Continuation of French 1000.

Prerequisite(s): One of French 1000 with a minimum grade of 'C-', French 10, French 20, or French 30-3Y

Lib Ed Req: Fine Arts and Humanities

**Note:** To confirm enrolment and placement, all students must complete the French Student Information Form and then, if required, the placement test, before the first day of classes.

## FRENCH 2001

### Intermediate Language for Immersion Graduates

Credit hours: 3.00

Contact hours per week: 3-1-0

A language course for French immersion graduates with an emphasis on written skills and grammatical concepts. Use of the language laboratory.

Prerequisite(s): One of French Language Arts 30 or Français 30

Substantially Similar:

French 2020

Lib Ed Req: Fine Arts and Humanities

**Note:** May not be taken for credit by students with French 2010 or French 2020.

## FRENCH 2010

### Intermediate Language I

Credit hours: 3.00

Contact hours per week: 3-1-0

Development of language skills; oral expression, listening comprehension, reading and writing. Use of the language laboratory.

Prerequisite(s): One of French 1100 with a minimum grade of 'C-', French 30, French 30-6Y, French 30-9Y, or French 31

Equivalent: French 1500 (prior to 2021/2022)

Lib Ed Req: Fine Arts and Humanities

**Note:** To confirm enrolment and placement, all students must complete the French Student Information Form and then, if required, the placement test, before the first day of classes. May not be taken for credit by students with French Language Arts 30 or Français 30.

## FRENCH 2020

### Intermediate Language II

Credit hours: 3.00

Contact hours per week: 3-1-0

Further development of language skills; oral expression, listening comprehension, reading and writing. Use of the language laboratory.

Prerequisite(s): French 2010 with a minimum grade of 'C-'

Equivalent: French 2000 (prior to 2021/2022)

Substantially Similar:

French 2001

Lib Ed Req: Fine Arts and Humanities

**Note:** May not be taken for credit by students with French Language Arts 30 or Français 30 or equivalent.

## FRENCH 2200

### Culture and Civilization I

Credit hours: 3.00

Contact hours per week: 3-0-0

Aspects of French culture and civilization.

Prerequisite(s): One of French 2020, French Language Arts 30, or Français 30

Lib Ed Req: Fine Arts and Humanities

## FRENCH 2250

### French Immersion

Credit hours: 3.00

Other hours per term: Immersion in a francophone milieu

Academic and living experiences in a francophone milieu. Institution to be approved by the Department. For students taking part in the French Visiting Student Programme only.

Prerequisite(s): One of French 2020 or French 2001 with a minimum 'C-' grade AND Second-year standing (a minimum of 30.0 credit hours)

Grading: Pass/Fail

Lib Ed Req: Fine Arts and Humanities

**Note:** It is recommended that Modern Languages Education: French majors successfully complete French 2250 before enrolling in Professional Semester I.

## FRENCH 2300

### Introduction to Modern Literature and Literary Analysis

Credit hours: 3.00

Contact hours per week: 3-0-0

Improvement of reading, writing and analytical skills in the French language. Appreciation and understanding of French literature from 1789 to the present day.

Prerequisite(s): One of French 2020, French Language Arts 30, or Français 30

Lib Ed Req: Fine Arts and Humanities

**FRENCH 2700****Communication écrite et orale***Credit hours: 3.00**Contact hours per week: 3-1-0*

Study of a variety of discourses in order to develop French oral and written rhetorical skills in an academic environment. Emphasis on communication strategies, methodology, and production of different genres in oral and written form.

*Prerequisite(s): French 2020 or French 2001*

*Equivalent:* French 2850 (Communication écrite et orale) (prior to 2017/2018);  
French 2850 (Intermediate Composition) (prior to 2017/2018)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Students who do not have French 2020 or French 2001, but have some knowledge of French at the intermediate level may be allowed to enrol after taking a required placement test. Such students may be required to complete an intermediate language course simultaneously. Please contact the French 2700 instructor for more information.

**FRENCH 3001****Advanced Language I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Structural and stylistic nuances of French.

*Prerequisite(s):* One of French 2020 or French 2001, with a minimum grade of 'C-'

*Lib Ed Req:* Fine Arts and Humanities**FRENCH 3100****Survey of Pre-Revolutionary French Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of French literature before the revolution of 1789. Study of a variety of genres and major authors.

*Prerequisite(s): French 2300**Lib Ed Req:* Fine Arts and Humanities**FRENCH 3200****Culture and Civilization II (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected periods, themes, sociopolitical, and cultural aspects of the Francophone world.

*Prerequisite(s): French 2200**Recommended Background:*

One of French 2001 or French 2300

*Lib Ed Req:* Fine Arts and Humanities**FRENCH 3450****Phonetics and Diction***Credit hours: 3.00**Contact hours per week: 2-1-0*

The theory and practice of phonetic features of the French language. Topics may include: sounds, stress, rhythm, intonation, syllabification, liaison, acoustic analysis, phonetic transcription using the International Phonetic Alphabet. English-French comparative phonetics. Use of the language laboratory.

*Prerequisite(s):* One of French 2020 or French 2001

*Lib Ed Req:* Fine Arts and Humanities**FRENCH 3600****Literary Genres (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Nature and development of a specific genre: novel, drama, poetry, short story, essay, biography, song, children's literature or film. Appreciation and understanding of characteristic elements of the genre. Representative works by major francophone artists.

*Prerequisite(s): French 2300**Lib Ed Req:* Fine Arts and Humanities**FRENCH 3901****Guided Readings in French Literature I***Credit hours: 1.50**Contact hours per week: Variable*

Students will follow an established program of independent reading, comprised of French and francophone literary works representing major genres and periods.

*Prerequisite(s):* French 3100 with a minimum grade of 'C+'

*Grading:* Pass/Fail*Lib Ed Req:* Fine Arts and Humanities

**Note:** Students should be aware that this course involves independent work.

**FRENCH 3902****Guided Readings in French Literature II***Credit hours: 1.50**Contact hours per week: Variable*

Students will follow an established program of independent reading, comprised of French and francophone literary works representing major genres and periods.

*Prerequisite(s): French 3901**Grading:* Pass/Fail*Lib Ed Req:* Fine Arts and Humanities

**Note:** Students should be aware that this course involves independent work.

**FRENCH 4001****Advanced Language II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Further study of the structural and stylistic nuances of French.

*Prerequisite(s):* French 3001 with a minimum grade of 'C-'

*Lib Ed Req:* Fine Arts and Humanities**FRENCH 4002****Advanced Studies in Language (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Aspects of the French language. Topics to be covered may include composition, translation, stylistic analysis, syntactic analysis and history of the French language.

*Prerequisite(s): French 3001**Lib Ed Req:* Fine Arts and Humanities**FRENCH 4600****Seminar in Literature (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected and representative works of major authors or literary movements of a specific period or century.

*Prerequisite(s):* One of French 3100 or French 3600

*Lib Ed Req:* Fine Arts and Humanities**FRENCH 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct research, report orally and submit a report in the form of an Undergraduate Thesis which will be made publicly available.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.30 or higher AND

A cumulative GPA of 3.50 or higher in French courses AND French 3001 AND

At least one French course (3.0 credit hours) at the 3000 or 4000 level in a field relevant to the thesis

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Geography (GEOG)**  
Faculty of Arts and Science

**GEOGRAPHY 1000**

**Introduction to Physical Geography**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Fundamental processes and interrelationships between the atmosphere, lithosphere, biosphere, and hydrosphere using a systems science approach. Topics will include landforms and landscapes, geodesy, Earth surface materials, soils, biogeography, weather and climate, hydrology, water resources, and glacial processes.

*Lib Ed Req: Science*

**Note:** This course complements Geography 1200.

**GEOGRAPHY 1200**

**Introduction to Human Geography**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of human geography as a discipline, focusing on interrelationships among people, places and their environments. Topics include the changing geographies of population, economy, settlement patterns, resource use and environment, politics, gender, and culture.

*Lib Ed Req: Social Science*

**Note:** This course complements Geography 1000.

**GEOGRAPHY 2000**

**World Regional Geography**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The course is organized around major world regions. It introduces students to the process of global integration and provides insights into the functional relations that characterize this integration. Environmental concerns, global population and resources, the emergence of trading blocs and growing dependency are covered within the framework of the regional organization.

*Lib Ed Req: Social Science*

**GEOGRAPHY 2030**

**Geomorphology**

*Credit hours: 3.00*

*Contact hours per week: 3-1.5-0*

*Other hours per term: 0-0-3*

The scientific study of landforms comprising a spectrum of approaches from both historical and functional conceptual bases. Basic concepts covered in landform description and analysis are uniformity, evolution, complexity, and systems. A three-hour field trip will be scheduled.

*Prerequisite(s): One of Geography 1000, Geography 2065, Environmental Science 2000, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science*

*Lib Ed Req: Science*

**GEOGRAPHY 2065**

**Physical Geology**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

*Other hours per term: 0-0-8*

Origin, composition and structure of the earth; identification of common rocks and mineral resources; evolution of the surface features of continents and ocean basins. A one-day field trip will be scheduled on a Saturday.

*Recommended Background: Geography 1000*

*Equivalent: Geology 2060 (prior to 2022/2023)*

*Lib Ed Req: Science*

**GEOGRAPHY 2070**

**Hazards, Disasters and Global Change**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The relationships of natural extremes, global environmental change and human systems. A key emphasis is identification of natural and human-induced global environmental change. Case studies demonstrating societal vulnerabilities to potential hazards and disasters.

*Equivalent: Geography 3070 (prior to 2020/2021)*

*Lib Ed Req: Science*

**GEOGRAPHY 2090**

**Biogeography**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

*Other hours per term: 0-0-16*

Geographic and spatial relationships of individuals, species, ecosystems, and biomes. Topics include biodiversity, dispersal, evolution and environmental change. Two eight-hour field excursions will be scheduled on Saturdays.

*Prerequisite(s): One of Geography 1000, Biology 1010, or Biology 1020*

*Lib Ed Req: Science*

**GEOGRAPHY 2210**

**Spatial Organization of Economic Activity**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Other hours per term: 0-0-4*

Neoclassical and contemporary perspectives on the geography of urban and economic activities. Topics covered include central place hierarchies, industrial location, agricultural and urban land use, transportation, spatial interaction and regional economic development. A four-hour field trip in the City of Lethbridge will be scheduled.

*Prerequisite(s): Geography 1200*

*Lib Ed Req: Social Science*

**GEOGRAPHY 2300**

**Weather and Climate**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

Introduction to the atmosphere. Global circulation and the role of energy exchange. Structure and behaviour of world and regional weather systems. Synoptic meteorology. Bioclimatology. Climate variation and cycles.

*Prerequisite(s): One of Geography 1000, Environmental Science 2000, admission to the Post-Diploma B.Sc. in Agricultural Studies, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science*

*Lib Ed Req: Science*

**GEOGRAPHY 2535****Introduction to Planning***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-8*

A survey of urban, regional, resource and land use planning, history of urban design and planning concepts, legal and institutional framework for urban and regional planning, the planning process, contemporary planning issues at the community, metropolitan and regional scale. A one-day field trip will be scheduled on a Saturday.

*Lib Ed Req: Social Science***GEOGRAPHY 2600****Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

Physical environments, resources, economics and settlements of the regions of Canada.

*Lib Ed Req: Social Science***GEOGRAPHY 2700****Geographical Data and Analysis***Credit hours: 3.00**Contact hours per week: 3-1.5-0*

Introduction to quantitative methods and statistical problem solving in geography. Unique features of geographical data. Introductory methods for analysis and description of areal and point data. Central tendency, dispersion and shape of distributions. Classification methods. Use of Normal, Binomial, and Poisson distributions in geographical analysis. Bivariate correlation and regression analysis. Computer applications in statistical problem solving.

*Prerequisite(s): One of Geography 1000, Geography 1200, Environmental Science 2000, admission to the Post-Diploma B.Sc. in Agricultural Studies, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science*

*Lib Ed Req: Science***GEOGRAPHY 2735****Introduction to Geographical Information Science***Credit hours: 3.00**Contact hours per week: 3-3-0*

An introductory course in the geographical information sciences with an emphasis on concepts in geographical information systems (GIS) and remote sensing. Data structures and fundamental GIS functions. Introduction to remote sensing of the Earth's surface, aerial photography, photogrammetry, and visual image interpretation. Laboratory work will involve techniques in GIS software, aerial photography interpretation, and image assessment.

*Prerequisite(s): One of Geography 1000, Geography 1200, or admission to the Post-Diploma B.Sc. in Agricultural Studies*

*Lib Ed Req: Science***GEOGRAPHY 3060****Glaciology and Glacial Geomorphology***Credit hours: 3.00**Contact hours per week: 3-3-0**Other hours per term: 0-0-8*

The study of perennial snow and ice and the effects of glaciers in the development of landforms. A one-day field trip will be scheduled on a Saturday.

*Prerequisite(s): Geography 2030**Lib Ed Req: Science***GEOGRAPHY 3075****Environmental Resources Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course considers the theory and methods of environmental assessment, adaptive management, and issues in resource analysis, allocation and development.

*Prerequisite(s): One of One of Geography 1000, Geography 1200, Environmental Science 2000 or admission to the Post-Diploma B.Sc. in Environmental Science*

*Lib Ed Req: Science or Social Science***GEOGRAPHY 3080****Soils***Credit hours: 3.00**Contact hours per week: 3-3-0**Other hours per term: 0-0-8*

Physical, chemical, biological properties of soils; soil formation, classification and distribution, insights into the uses and abuses of soils, role of soil agronomy in resource development. A one-day field trip will be scheduled on a Saturday.

*Prerequisite(s): One of Geography 2030, Geography 2065, or admission to the Post-Diploma B.A. or B.Sc. in Agricultural Studies*

*Lib Ed Req: Science***GEOGRAPHY 3095****Advanced Biogeography***Credit hours: 3.00**Contact hours per week: 3-3-0*

Examination of the past and present distribution, abundance, trends, ranges, diversity, evolution, and movements of living organisms. Detailed case studies of select taxa, including for example, marine mammals, trees, and insects, and comparison of biomes, the role of abiotic factors such as weather and fire, and ecological relationships among organisms. Theory and practical applications include aspects of ecological, historical, and conservation biogeography. Techniques in geographical and statistical analysis of spatial attributes and relationships.

*Prerequisite(s): One of Geography 2090, Biology 2200, or admission to the Post-Diploma B.Sc. in Environmental Science*

*Equivalent: Geography 4030 (Advanced Biogeography) (prior to 2021/2022); Environmental Science 4000 (Advanced Biogeography) (prior to 2021/2022)*

*Lib Ed Req: Science*



**GEOGRAPHY 3210****Food Systems Analysis***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-8*

An examination of the nature and spatial complexion of agricultural systems in advanced, market economics. The course will focus on various physical, economic, social and institutional forces which influence the geography of agriculture. Examples and case studies will be drawn mainly from North America and Western Europe. A one-day field trip (or two half-days) may be scheduled, preferably, but not necessarily, on a Saturday.

*Prerequisite(s):* One of Agricultural Studies 1000 or a previous course (3.0 credit hours) in Geography AND Third-year standing (a minimum of 60.0 credit hours)  
OR  
Admission to the Post-Diploma B.A. or B.Sc. in Agricultural Studies.

*Lib Ed Req: Social Science*
**GEOGRAPHY 3225/  
INTERNATIONAL  
MANAGEMENT 3225**
**Industrial Location and Globalization of Enterprise***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-8*

Industrial geography is concerned with the location of industrial activity at local, continental and global scales of analysis. The course explores locational patterns and behaviour of small, medium-sized and transnational manufacturing firms with special emphasis on locational dynamics over time. By taking a geographical perspective, the course links the spatial behaviour of firms with economic development issues at the local, regional and global scales. A one-day field trip will be scheduled.

*Prerequisite(s):* One of Geography 2210 or Human Resources and Labour Relations 2030  
OR  
Admission to the Post-Diploma Bachelor of Management program

*Equivalent:* Geography 3225/ Management 3660 (prior to 2021/2022)

*Lib Ed Req: Social Science***GEOGRAPHY 3230****Urban Social Geography***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-12*

Internal social geography of cities. Classical and contemporary approaches to the study of neighbourhood and community differentiation, social inequalities in the city, social segregation, social polarization, and urban social structure. Intra-urban variations in morphology, land use, crime, housing, deprivation, well-being, community conflict and community organizations. A full-day field trip may be scheduled on a weekend.

*Prerequisite(s):* Geography 1200*Lib Ed Req: Social Science***GEOGRAPHY 3245****Urbanization in Developing Countries***Credit hours: 3.00**Contact hours per week: 3-0-0*

A theoretical examination of the spatial and temporal patterns of urbanization in developing countries. Topics include urban structural characteristics, urban-rural relations, regional disparities, housing, employment, and relationships between urbanization and development processes.

*Prerequisite(s):* One of Geography 1200 or Geography 2000 AND Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req: Social Science***GEOGRAPHY 3255****Qualitative Research Methods***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to social science research from a critical perspective. Theories and techniques in qualitative research design, data collection, and analysis including interviews, focus groups, discourse analysis, ethnography, and archival methods.

*Prerequisite(s):* One of Geography 1000 or Geography 1200 AND Second-year standing (a minimum of 30.0 credit hours)

*Lib Ed Req: Social Science***GEOGRAPHY 3300****Microclimatology***Credit hours: 3.00**Contact hours per week: 3-3-0*

Climatology of the planetary boundary layer. An examination of the dynamic exchanges of radiation, energy, water, and carbon at the Earth-atmosphere interface. Topics addressed include: surface radiation balance; latent and sensible heat flux; air pollution in the boundary layer; carbon dynamics in agricultural and natural ecosystems; and implications of atmospheric change on land-atmosphere interactions and tropospheric climate.

*Prerequisite(s):* Geography 2300*Lib Ed Req: Science*
**GEOGRAPHY 3333/WOMEN AND  
GENDER STUDIES 3333**
**Geography of Borders and Displacement***Credit hours: 3.00**Contact hours per week: 3-0-0*

Overview of critical theoretical and methodological approaches to understanding borders, displacements, and nation-states in historical and contemporary contexts. Key concepts from the field of political geography including sovereignty, territoriality, settler colonialism, nationalism, governance, migration, transnationalism, citizenship, and security. While focused on the Canadian context, the course addresses global examples as relevant and brings Indigenous, settler colonial, and migration histories and geographies into conversation.

*Prerequisite(s):* One of Geography 1200, Women and Gender Studies 1000, Anthropology 1000, Sociology 1000, or Political Science 1000 AND Second-year standing (a minimum of 30.0 credit hours)

*Equivalent:* Geography 3850 (Political Geography: Borders and Displacement) (prior to 2021/2022); Geography 3850 (Geography of Borders) (prior to 2021/2022)

*Lib Ed Req: Social Science*

**GEOGRAPHY 3400****Hydrology***Credit hours: 3.00**Contact hours per week: 3-3-0*

An introduction to hydrology. Components of the hydrological cycle, processes of water movement and storage, introduction to drainage basin form and process.

*Prerequisite(s): Geography 2300**Lib Ed Req: Science***GEOGRAPHY 3440/****ENVIRONMENTAL SCIENCE 3440****Wetlands***Credit hours: 3.00**Contact hours per week: 3-0-0*

Wetlands are integral elements in many Canadian environments, with fragile but dynamic ecosystems, high levels of biodiversity, and complex hydrology and geomorphology. This course will explore wetland ecosystems, processes, classification (using ground and geospatial methods for the non-expert), and policy frameworks, and will also address critical issues of reclamation, value, and distribution.

*Prerequisite(s): One of Geography 2090, Geography 2300, or Environmental Science 2000**Equivalent: Geography 3850 (Wetlands) (prior to 2020/2021); Environmental Science 3000 (Wetlands) (prior to 2020/2021)**Lib Ed Req: Science***GEOGRAPHY 355 I/****INTERNATIONAL****MANAGEMENT 355 I****An Introduction to Tourism***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides an overview of tourism with an emphasis on socially and environmentally sustainable tourism. Topics covered include the nature and scope of tourism, public policy, tourism and economic development, tourism marketing, tourism impacts, aboriginal tourism, and ecotourism.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Equivalent: Geography 355 I/ Management 355 I (prior to 2021/2022)**Lib Ed Req: Social Science***GEOGRAPHY 3605****The Changing Geography of China***Credit hours: 3.00**Contact hours per week: 3-0-0*

The evolving social, political and economic landscape of China. Development strategies and their effects on agriculture, population, industry, urbanization, city planning and the environment since 1949. Special attention paid to the post-reform market transformation, the interconnected development trajectories shaping urban and rural areas, and the changing role of China in the global political economy sphere.

*Prerequisite(s): One of Geography 1200 or Geography 2000 AND Third-year standing (a minimum of 60.0 credit hours)**Lib Ed Req: Social Science***GEOGRAPHY 3700****Mapping in the Cloud***Credit hours: 3.00**Contact hours per week: 3-3-0*

Fundamental principles and practical aspects of digital mapping. Cartographic concepts such as map scale, projections, coordinate systems, geodesy, control networks, geographic data processing, generalization, design, colour, and symbolization are covered in the context of the evolution of cartography and modern cloud-based mapping systems. State of the art mapping software is used in laboratory exercises and for the completion of a project.

*Prerequisite(s): One of Geography 2735, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science**Lib Ed Req: Science***GEOGRAPHY 3710****Field Techniques in the Earth Sciences***Credit hours: 3.00**Contact hours per week: 3-3-0**Other hours per term: 0-0-30*

Mapping, recording and analysis of physical and cultural features in the southern Alberta landscape. Practical work to illustrate field research methodologies. Study projects will be carried out individually and in groups. Weekly field trips will be scheduled during the afternoon and may run as much as two hours beyond the lab period, especially where a considerable amount of travel time is required.

*Prerequisite(s): Geography 2700 AND One of Geography 2030 or Geography 2065**Lib Ed Req: Science***GEOGRAPHY 3720****Remote Sensing***Credit hours: 3.00**Contact hours per week: 3-3-0*

Principles of digital remote sensing and image analysis. Fundamentals of the electromagnetic spectrum. Analysis of the interaction of energy with the Earth and atmosphere using remote sensing systems. Computer laboratory work will involve digital image analysis with environmental applications.

*Prerequisite(s): One of Geography 2735, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science**Lib Ed Req: Science*

**GEOGRAPHY 3735****Analysis of Environmental Data***Credit hours: 3.00**Contact hours per week: 3-3-0*

Rationales and tools for statistical analysis of data and evidence are presented and explored for the natural sciences.

Parameter estimation, hypothesis testing, statistical distribution measures, exploratory data analysis, univariate and multivariate statistical models, design of experiments, simulation modeling, basic geostatistics, applied spatial analysis, and critical thinking are presented and discussed with respect to case studies. Software includes SPSS, JMP, R, spreadsheets, and other standard tools.

*Prerequisite(s):* One of Geography 2700, Biology 2150, Psychology 2030, Sociology 2130, or Statistics 1770

*Lib Ed Req:* Science

**GEOGRAPHY 3740****Geographical Information Systems***Credit hours: 3.00**Contact hours per week: 3-3-0*

Geographical data, modelling, functions, data structures, and analysis. Spatial database management systems and applications. Laboratory work involves a variety of computer applications.

*Prerequisite(s):* One of Geography 2735, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science

*Lib Ed Req:* Science

**GEOGRAPHY 3750****GIS Applications in Human Geography***Credit hours: 3.00**Contact hours per week: 3-1-0*

An applied introduction to GIS in Canadian human geography. Students will be exposed to the Canadian census of population, agricultural census, and other spatial data products. Manipulation of variables, interpretation of spatial patterns and trends and hypothesis testing using these data within GIS software.

*Prerequisite(s):* One of Geography 2735, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science

*Lib Ed Req:* Science

**GEOGRAPHY 3780****Field Research in Geography***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-70*

Review of the physical and human geography of the study area will be followed by information gathering and data analysis using geographical field techniques and equipment.

*Prerequisite(s):* One of Geography 1000, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science AND Geography 1200 AND Geography 2700

*Recommended Background:*

Major in Geography, Environmental Science, Agricultural Studies, Urban and Regional Studies, Archaeology and Geography, Computer Science and Geographical Information Science, or Remote Sensing

*Lib Ed Req:* Science

**Note:** The field component of this course is mandatory and will take place during seven consecutive days prior to the start of the regular fall term.

**GEOGRAPHY 3791****Field Excursion in Human Geography (Series)***Credit hours: 3.00**Other hours per term: 3-0-110*

Extended field studies of specified regions. Studies will include field observation, discussion and interpretation of ancient and/or current societies and economic activities and the interactions of these with past and present environments. The focus of this course will be on human geography although some physical geography will be encountered. Inasmuch as this course involves travel to or residence at remote sites, costs borne by students vary but may range up to several thousand dollars.

*Prerequisite(s):* Geography 1200 AND Third-year standing (a minimum of 60.0 credit hours)

**Note:** Three (3) lecture hours prior to the excursion are required of all students to ensure they understand all appropriate logistical and safety information.

**GEOGRAPHY 3792****Field Excursion in Physical Geography (Series)***Credit hours: 3.00**Other hours per term: 3-0-110*

Extended field studies of specified regions. Studies will include field observation, discussion and interpretation of physical landscape evolution and processes past and present. The focus of this course will be on physical geography although some human geography will be encountered in the interactions of ancient and/or current societies with past and present environments. Inasmuch as this course involves travel to or residence at remote sites, costs borne by students vary but may range up to several thousand dollars.

*Prerequisite(s):* Geography 1000 AND Third-year standing (a minimum of 60.0 credit hours) OR One of admission to the Post-Diploma B.Sc. in Environmental Science or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science

*Lib Ed Req:* Science

**Note:** Three (3) lecture hours prior to the excursion are required of all students to ensure they understand all appropriate logistical and safety information.

**GEOGRAPHY 4030****Advanced Physical Geography (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Contemporary issues in the field of physical geography. Use of geographical examples to explain the physical environment and related processes. Exploration of the dynamic field of physical geography research.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND  
Additional prerequisites will be specified, including any recommended background, for individual offerings

*Lib Ed Req: Science***GEOGRAPHY 4060****Agricultural Soil Management***Credit hours: 3.00**Contact hours per week: 3-3-0**Other hours per term: 0-0-16*

Management and conservation of agricultural soils including effects of different crop management systems on soil properties. Topics include: soil fertility; soil and plant testing; commercial fertilizer; manure management; soil quality in both irrigated and dryland crop production systems; identification and management of problem soils; environmental concerns. Practical field experience is included. Two eight-hour field trips will be scheduled on Saturdays near the beginning of the fall term for field study of different soil types.

*Prerequisite(s):* One of Geography 3080 or admission to the Post-Diploma B.Sc. in Environmental Science

*Lib Ed Req: Science***GEOGRAPHY 4065****Irrigation Science***Credit hours: 3.00**Contact hours per week: 3-0-1*

Irrigation as a contemporary agricultural practice. Studies of global, regional and local irrigation developments, soil-water-plant relationships for consumptive use of water, on-farm irrigation techniques and applications. Design of water conveyance systems, pipe and channel hydraulics. Water supplies for irrigation. Environmental concerns and opportunities.

*Prerequisite(s):* One of Geography 3080 or admission to the Post-Diploma B.Sc. in Environmental Science

*Lib Ed Req: Science***GEOGRAPHY 4220****Advanced Economic Geography (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminar presentation of contemporary problems in economic geography.

*Prerequisite(s):* Geography 3225/International Management 3225

**GEOGRAPHY 4240****Advanced Urban Geography (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminar presentation of contemporary problems in urban geography.

*Prerequisite(s):* Geography 3230

**GEOGRAPHY 4300****Climate Science, Impacts, Solutions***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-16*

Introduction to the science, politics, and health and well-being challenges of climate change. Likely changes to personal and community lifestyles, and the consumption of energy and other resources. Population migration due to climate change impacts. Future impacts on human health, infrastructure, social and political changes, and the risks of military conflict due to the warming of the global climate. Infrastructure redevelopment, protection, and abandonment due to increasing climate, weather, and ocean changes.

*Prerequisite(s):* Geography 2300

*Recommended Background:*

Fourth-year standing (a minimum of 90.0 credit hours)

*Equivalent:* Geography 4030 (Climate Change: Science, Impacts, Solutions (prior to 2020/2021))

*Lib Ed Req: Science***GEOGRAPHY 4350/****SOCIOLOGY 4350****Population and the Environment***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the complex and reciprocal relationship between population dynamics and the environment. The focus pertains to how people respond to changing environments and how population processes influence the environment. Theoretical approaches and empirical research from a range of social sciences including sociology, geography, demography, human ecology, environmental economics, and political science.

*Prerequisite(s):* One of Geography 2210, Geography 2300, Sociology 2050, or Sociology 2300

*Equivalent:* Geography 4850 (Population and the Environment) (prior to 2022/2023); Sociology 4850 (Population and the Environment) (prior to 2022/2023)

*Lib Ed Req: Social Science***GEOGRAPHY 4400****Advanced Hydrology***Credit hours: 3.00**Contact hours per week: 3-3-0*

The hydrological cycle. Interactions of the atmosphere, surface and subsurface water systems. Hydrological modelling using geographical information systems will be a major component of lectures and laboratory exercises.

*Prerequisite(s):* Geography 3400 AND Geography 3740

*Lib Ed Req: Science***GEOGRAPHY 4500****Contemporary Issues and Problems in Planning (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced planning courses instructed by faculty or experienced planning professionals.

*Prerequisite(s):* Geography 2535 (Additional prerequisites may be specified, including any recommended background, for individual offerings)

**GEOGRAPHY 4700****Advanced Digital Mapping***Credit hours: 3.00**Contact hours per week: 3-3-0*

Advanced topics and concepts in digital mapping and applications in the spatial sciences. Development, analysis, and integration of multisource geographical data and spatial cartographic databases. Cloud-based mapping, geospatial apps, and location-based processing involving graphics, animation, visualization, machine learning, augmented/virtual reality, and mobile digital earth mapping of geographical phenomena. Spatial analysis project work will be emphasized and supported by laboratory mapping exercises.

*Prerequisite(s): Geography 3700**Lib Ed Req: Science***GEOGRAPHY 4710****Remote Sensing Field Techniques***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-10*

Field measurement for airborne and satellite image analysis. The spatial, spectral, radiometric, biophysical, ecological and morphometric properties of the Earth's surface will be measured, analysed, mapped and modelled. Field instrumentation, use, interpretation, analysis and validation as well as instruction in spectroradiometry, global positioning systems, ecological data collection, computer image analysis, and GIS will be provided. Includes field work and computer laboratory exercises.

*Prerequisite(s): Geography 3720**Recommended Background:**A course in data analysis**Lib Ed Req: Science***Note:** *May involve off-campus field work and require a field trip fee.***GEOGRAPHY 4725****Advanced Remote Sensing***Credit hours: 3.00**Contact hours per week: 3-3-0*

Digital image analysis of aerial and satellite data for earth observation and studies of environmental and landuse change from local to global scales. Computer graphics and image processing in spatial, spectral and time dimensions. Data integration, classification, predictive models and fundamentals of spectroradiometry. Laboratory work will focus on digital image analysis software and applications.

*Prerequisite(s): Geography 3720**Lib Ed Req: Science***GEOGRAPHY 4730****Spatial Statistics***Credit hours: 3.00**Contact hours per week: 3-3-0*

An introduction to statistical methods of spatial analysis, including techniques for description, sampling, comparison, relationships and trends.

*Prerequisite(s): Geography 2700 AND*

*One of Geography 2735, admission to the Post-Diploma B.Sc. in Environmental Science, or admission to the Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science*

*Lib Ed Req: Science***GEOGRAPHY 4740****Advanced Geographical Information Systems***Credit hours: 3.00**Contact hours per week: 3-3-0*

Advanced and applied topics in geographical information science, with a focus on spatial analysis, data visualization, geographical problem solving, and new directions. GIS projects will be emphasized.

*Prerequisite(s): Geography 3740**Lib Ed Req: Science***GEOGRAPHY 4751****Spatial Modelling***Credit hours: 3.00**Contact hours per week: 3-0-0*

A project-based course examining spatial patterns and processes using an array of advanced spatial-analytical techniques including Geographical Information Systems. Simulation, prediction, and diffusion of various phenomena and spatial structures through geographic space and over time. Applications to encompass the breadth of geography's subfields and related areas of study.

*Prerequisite(s): One of Geography 3720 or Geography 3740**Lib Ed Req: Science***GEOGRAPHY 4753****Seminar in Remote Sensing***Credit hours: 3.00**Contact hours per week: 3-0-0*

Contemporary issues in remote sensing and image analysis. Advanced approaches to classification, modelling, change detection and scaling. The role of remote sensing science in integrated studies of global change. Research and new directions.

*Prerequisite(s): Geography 4725**Substantially Similar:**Geography 5753**Lib Ed Req: Science***GEOGRAPHY 4900****Seminar in Geographic Thought***Credit hours: 3.00**Contact hours per week: 3-0-0*

History and theory of geography from the Greeks to the present. Current status of geography in major nations of the world.

*Prerequisite(s): Three courses (9.0 credit hours) in Geography**Lib Ed Req: Social Science***GEOGRAPHY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND**A cumulative GPA of 3.30 or higher AND**An Independent Study (3990) in Geography***Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

## Health Sciences (HLSC) Faculty of Health Sciences

### HEALTH SCIENCES 1010

#### Personal Health and Wellness

Credit hours: 3.00

Contact hours per week: 3-0-0

Critical exploration of health and wellness constructs from a personal perspective. Exploration of principles, practices and issues related to health, with a particular emphasis on increasing awareness, knowledge, health literacy, and various conceptualizations of health behaviour.

Substantially Similar:

Nursing 1410

Lib Ed Req: Social Science

### HEALTH SCIENCES 1060

#### Human Anatomy and Physiology

Credit hours: 3.00

Contact hours per week: 3-1-0

A study of the human body from investigation of anatomical systems, to physiological functioning and biomechanical processes of movement.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)

Equivalent: Therapeutic Recreation 1160 (prior to 2019/2020);  
Therapeutic Recreation 1850 (Human Anatomy and Physiology) (prior to 2017/2018);  
Health Sciences 1850 (Human Anatomy and Physiology) (prior to 2019/2020)

Substantially Similar:

Kinesiology 1160

**Note:** This course will not be counted towards the Kinesiology major or the Nursing Preparation Program.

### HEALTH SCIENCES 1170

#### Human Development Across the Lifespan

Credit hours: 3.00

Contact hours per week: 3-0-0

Examination of human growth and psychological development across the lifespan. Overview of the interplay of biological, sociological and psychological forces in human development.

Lib Ed Req: Social Science

### HEALTH SCIENCES 2003/ BIOLOGY 2003

#### Epidemiology

Credit hours: 3.00

Contact hours per week: 3-0-0

Scope and application of epidemiology in relation to factors that affect health and contribute to disease in a global context.

Prerequisite(s): One of Biology 1010 or admission to the Faculty of Health Sciences

Lib Ed Req: Science

### HEALTH SCIENCES 2310

#### Human Nutrition

Credit hours: 3.00

Contact hours per week: 3-0-0

A survey of the basic elements of foods and human nutrition based on elementary principles of biology and biochemistry. Nutritional requirements, the function and metabolism of nutrients, and the practical means for achieving adequate nutrition will be emphasized. Changes caused by colonialism and the Western impact on current health issues for Aboriginal people will be addressed.

Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)

Lib Ed Req: Science

### HEALTH SCIENCES 2400

#### Medical Microbiology

Credit hours: 3.00

Contact hours per week: 3-0-0

Biology and pathogenesis of bacteria, viruses, prions and parasites and their threat to human and animal survival and health.

### HEALTH SCIENCES 2450/

#### HISTORY 2450

#### Evolution of Health and Illness Care

Credit hours: 3.00

Contact hours per week: 3-0-0

This course examines the evolution of health and illness care in Canada over four centuries, with an emphasis on the 20th Century. It emphasizes the historical development of medicine, nursing, social work, pharmacy, and public health as interrelated yet distinct spheres of practice. It also looks at how particular historical events and movements (Spanish Flu epidemic, World Wars I and II, modern hospital movement) helped to shape how Canadians perceive and provide illness and health care.

Prerequisite(s): One course (3.0 credit hours) in History, Nursing, or Health Sciences

Lib Ed Req: Fine Arts and Humanities

### HEALTH SCIENCES 2600/WOMEN AND GENDER STUDIES 2100

#### Women and Health

Credit hours: 3.00

Contact hours per week: 3-0-0

Concerns of women in health and illness are explored in relation to current formal and informal health care practices.

Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)

Lib Ed Req: Social Science

### HEALTH SCIENCES 2700/ SOCIOLOGY 2700

#### Health and Society

Credit hours: 3.00

Contact hours per week: 3-0-0

Sociological perspectives on health and wellness within Canadian and global contexts. The relationship between social organization and health; social constructions and meanings of health; social epidemiology; health beliefs and behaviour; and the experience of illness.

Prerequisite(s): One of Sociology 1000 or Sociology 0520

Lib Ed Req: Social Science

### HEALTH SCIENCES 2806/ BIOLOGY 2806

#### Immunology

Credit hours: 3.00

Contact hours per week: 3-0-0

Biological role of immunity and natural resistance.

Prerequisite(s): One of Biology 1010 or admission to the Faculty of Health Sciences

Lib Ed Req: Science

**HEALTH SCIENCES 3002****Health Promotion***Credit hours: 3.00**Contact hours per week: 3-0-0*

A socioecological examination of health promotion at individual, group, organizational and population levels. Theories, models, approaches, strategies and evidence of best practices are examined. Canadian health promotion history is reviewed and major shifts in approach are considered in relation to changes in public policy and the social, economic and political contexts.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Mutually Exclusive:*

Addictions Counselling 3002;  
Nursing 3020;  
Nursing 3021

*Substantially Similar:*

Addictions Counselling 3002;  
Nursing 3020;  
Nursing 3021

*Lib Ed Req:* Social Science

**HEALTH SCIENCES 3100****Managing in Health Care***Credit hours: 3.00**Contact hours per week: 3-0-0*

An interdisciplinary approach to the management of health organizations. This course will explore relationships, contexts, structures, and processes basic to 'managing' in health care. Students will gain a better understanding of what the 'practice' of managing is all about, in general, and in relation to the industry of health care.

*Prerequisite(s):* 15 university-level courses (a minimum of 45.0 credit hours)

**HEALTH SCIENCES 3125****Pain Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Explores the concept of 'total suffering' and factors which influence the individual's pain experience. Includes the physiological basis for symptom manifestation. Strategies for assessment and interventions, both pharmacologic and non-pharmacologic, will be examined. Quality of life issues will be debated.

*Prerequisite(s):* 15 university-level courses (a minimum of 45.0 credit hours)

*Lib Ed Req:* Social Science

**HEALTH SCIENCES 3127****Loss, Grief and Bereavement***Credit hours: 3.00**Contact hours per week: 3-0-0*

Explores major theories and relevant concepts surrounding grief experiences across the lifespan. Particular attention is given to individual strategies for accommodation of various types of loss. A variety of grieving responses will be examined as well as the concept of 'hopefulness' in making sense of the loss experience.

*Prerequisite(s):* 15 university-level courses (a minimum of 45.0 credit hours)

*Lib Ed Req:* Social Science

**HEALTH SCIENCES 3150****Abnormal Psychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of behaviour disorders, theories of causation, descriptions of the disorders, and strategies of various therapies throughout the lifespan.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Therapeutic Recreation 3150 (prior to 2019/2020);  
Health Sciences 3850 (Abnormal Psychology) (prior to 2019/2020);  
Addictions Counselling 3150 (prior to 2022/2023)

*Substantially Similar:*

Psychology 3500;  
Psychology 2505 (prior to 2020/2021)

*Lib Ed Req:* Social Science

**HEALTH SCIENCES 3260****Research in the Health Sciences***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides students in the health disciplines with the practical foundational skills to understand, critically evaluate, and apply health research findings in the course of evidence-informed decision-making and practice. A variety of qualitative and quantitative approaches to investigating the health of populations will be considered.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Substantially Similar:*

Addictions Counselling 3260;  
Nursing 3360

**HEALTH SCIENCES 3331****Co-op Work Placement I***Credit hours: 0.00*

A non-credit work placement for students in the Faculty of Health Sciences. Students will gain experience in their chosen field of specialization.

*Prerequisite(s):* Admission to the Co-operative Education program

*Grading:* Pass/Fail

**HEALTH SCIENCES 3332****Co-op Work Placement II***Credit hours: 0.00*

A non-credit work placement for students in the Faculty of Health Sciences. Students will gain experience in their chosen field of specialization.

*Prerequisite(s):* Health Sciences 3331

*Grading:* Pass/Fail

**HEALTH SCIENCES 3333****Co-op Work Placement III***Credit hours: 0.00*

A non-credit work placement for students in the Faculty of Health Sciences. Students will gain experience in their chosen field of specialization.

*Prerequisite(s):* Health Sciences 3332

*Grading:* Pass/Fail

**HEALTH SCIENCES 3334****Co-op Work Placement IV***Credit hours: 0.00*

A non-credit work placement for students in the Faculty of Health Sciences. Students will gain experience in their chosen field of specialization.

*Prerequisite(s):* Health Sciences 3333

*Grading:* Pass/Fail

**HEALTH SCIENCES 3335****Co-op Work Placement V***Credit hours: 0.00*

A non-credit work placement for students in the Faculty of Health Sciences. Students will gain experience in their chosen field of specialization.

*Prerequisite(s):* Health Sciences 3334

*Grading:* Pass/Fail

**HEALTH SCIENCES 3336****Co-op Work Placement VI***Credit hours: 0.00*

A non-credit work placement for students in the Faculty of Health Sciences. Students will gain experience in their chosen field of specialization.

*Prerequisite(s):* Health Sciences 3335

*Grading:* Pass/Fail

**HEALTH SCIENCES 3450/  
PSYCHOLOGY 3450****Applied Statistics for Clinical Practice***Credit hours: 3.00**Contact hours per week: 3-1-0*

Traditional application of descriptive and inferential statistical techniques used in applied disciplines such as health sciences and clinical psychology. Topics include choosing statistical tests, data entry and coding, parametric and non-parametric tests, correlation, chi-square, t-tests, ANOVA, interpretation of statistical tests, statistical significance versus clinical significance, and clinical implications of statistical testing.

*Prerequisite(s):* Two courses (6.0 credit hours) at the 2000 level or higher in Addictions Counselling, Health Sciences, Neuroscience, or Psychology

**OR**

Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Science**HEALTH SCIENCES 3510****Program Planning and Evaluation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Identify and apply various theories, models, and practical tools used to plan, implement, and evaluate program interventions. Students will learn to prioritize program needs, identify best-practice intervention strategies, and explore evaluation designs to measure the impact of program interventions.

*Prerequisite(s):* One of Addictions Counselling 3260, Health Sciences 2003/Biology 2003, Health Sciences 2300, Kinesiology 2200, Management 2700, Nursing 3360, Political Science 2610, Psychology 2030, or Sociology 2100

**HEALTH SCIENCES 3560/  
HISTORY 3560****History of Nursing: Women and the Care of the Sick***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines the development of Canadian nursing from its religious roots in 17th-Century Quebec to the modern hospital movement of the 20th Century. It emphasizes ways in which politics, gender, race and religion helped to shape nursing into a predominantly hospital-based profession comprised of white women, and looks at the efforts of men and minority women to earn a place in nursing in Canada and elsewhere.

*Prerequisite(s):* One course (3.0 credit hours) in Health Sciences, Nursing, or History

*Lib Ed Req:* Fine Arts and Humanities**HEALTH SCIENCES 3570/  
PSYCHOLOGY 3570****Contemporary Issues in Mental Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

Mental health issues, including mental health research, the mental health care system, the nature of mental health, the DSM diagnostic system, the interplay between the pharmaceutical industry and the mental health care system, gender issues, mental health treatments, the role of trauma in mental health, and various specific mental health concerns such as depression, anxiety, schizophrenia, ADHD and eating disorders.

*Prerequisite(s):* One 2000-level course (3.0 credit hours) in Psychology, Neuroscience, or Health Sciences

**OR**

Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Social Science**HEALTH SCIENCES 3800****Teaching and Learning for Health Professions***Credit hours: 3.00**Contact hours per week: 3-0-0*

The focus of this course is on developing an understanding of teaching and learning theories and how these can be used to enhance learning and education for the health professions.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

**HEALTH SCIENCES 3802****Gerontology***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of aging from a biopsychosocial perspective. Introduction to topics related to the phenomenon of population aging, aging theory, aging research, older adult health promotion, physiology, health care delivery, aging stereotypes, retirement, caregiving and issues associated with the end of life.

*Prerequisite(s):* 15 university-level courses (a minimum of 45.0 credit hours)

*Lib Ed Req:* Social Science**HEALTH SCIENCES 3825/  
MANAGEMENT 3825****Information in Health Care***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to how information is created, utilized and disseminated within the health care realm. Content areas include information systems theory, examination of existing health systems, and the Lethbridge and Canadian Health care context.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Equivalent:* HLSC 3500/  
Management 3825 (prior to 2021/2022)

**HEALTH SCIENCES 3860****Men's Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

Physical, mental, emotional, social and spiritual aspects of men's lives are explored, including the impact of the family, community, society, institutions, and the environment on the health of men.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Lib Ed Req:* Social Science**HEALTH SCIENCES 4011****Issues in Addiction and Mental Health Psychotherapy (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

In-depth study of issues facing individuals with addiction and mental health problems relevant to counselling and psychotherapy.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Addiction and Mental Health Psychotherapy 5011



## HEALTH SCIENCES 4500/FINE ARTS 4500

### Global Health, Fine Arts, and Social Change

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course will introduce students to the creation of social change using the arts as a strategy to address global health challenges, with an emphasis on sub-Saharan Africa. Students will examine contextual aspects of and influences on health and health care. Students will gain basic skills and experience in selected fine arts (e.g., theatre, music) and will explore their application to culturally safe health promotion initiatives.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

## HEALTH SCIENCES 4510/FINE ARTS 4510

### Global Health and Arts for Change Field Study

*Credit hours: 3.00*

*Other hours per term: 0-0-120*

Students will spend approximately four weeks in Malawi, a Southern African country, where they will interact with health care providers and community members in rural and urban areas to gain firsthand knowledge and understanding of the social, political, human rights, cultural and economic influences that contribute to the health status of Malawian citizens. Students will assist with the development and implementation of arts-based primary health care strategies to address these health concerns. Students will also have the opportunity to reflect on their roles and responsibilities related to global citizenship.

*Prerequisite(s): Health Sciences 4500/Fine Arts 4500*

*Lib Ed Req: Fine Arts and Humanities*

## Hebrew (HEBR) Faculty of Arts and Science

## HEBREW 1000 Elementary Hebrew I

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Basic grammar of classical Hebrew; reading and written work, translation of Hebrew prose.

*Lib Ed Req: Fine Arts and Humanities*

## HEBREW 1100 Elementary Hebrew II

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Continuation of grammar, reading and writing; translation of Biblical passages and ancient Hebrew inscriptions.

*Prerequisite(s): Hebrew 1000*

*Lib Ed Req: Fine Arts and Humanities*

## Hispanic Studies (HPST) Faculty of Arts and Science

## HISPANIC STUDIES 3800 Hispanic Popular Culture (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Topics such as soap operas, cinema, comic strips, music and marginal literature from the Spanish-speaking world.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Language of instruction is English.

## History (HIST) Faculty of Arts and Science

## HISTORY 1000 The Western World

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of selected developments in the Western world. Emphasis on continuity and change in the context of societies, politics, economies, cultures, religions and war.

*Mutually Exclusive:*

*History 1200*

*Substantially Similar:*

*History 1200*

*Lib Ed Req: Fine Arts and Humanities*

## HISTORY 1200 World History

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of selected developments in world history. Emphasis on continuity and change in the context of societies, politics, economies, cultures, religions, and war.

*Mutually Exclusive:*

*History 1000*

*Substantially Similar:*

*History 1000*

*Lib Ed Req: Fine Arts and Humanities*

## HISTORY 2001 Main Themes in Ancient History

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The world of the Greek city-states and of the Roman Empire, from 700 B.C. to A.D. 250. Origins of complex urban societies. Main political and economic forces in their development. Significance of belief, literature and art.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

## HISTORY 2100 Main Themes in Medieval European History

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The main themes in the history and historiography of medieval Europe, from the fall of the Roman Empire until the end of the Hundred Years' War. Topics include the fall of Rome and the rise of Christianity, the concepts of feudalism and renaissance, the crusades, scholasticism, 'courtly love' and chivalry, the Black Death and the development of national monarchies.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

## HISTORY 2102 Early Modern Europe - 1500-1750

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The Protestant Reformation. Politics of the dynasties. Spain, the Catholic Reformation and religious war. The general crisis of the 17th Century. The emergence of new powers. Changes in popular and elite culture.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

## HISTORY 2150 The Politics of Europe - 1750-1914

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The Old Regimes of Europe. The French Revolution and Napoleonic Europe. Industrialization and ideologies. The Revolutions of 1848. Unification. Imperialism and the origins of the First World War. Trends in European thought, culture and society.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2222****History in Practice***Credit hours: 3.00**Contact hours per week: 3-0-0*

Hands-on skills workshop in the art and craft of the historian. Includes constructing a research topic, locating and analyzing sources, developing an argument, historiographical analysis, and history's relevance in the modern world.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2290****Main Themes in East Asian History***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected aspects of the historical development of East Asia, mainly of China and Japan: from the Hsia/Shang to Ch'ing Dynasties in China; from the Nara through Tokugawa periods in Japan; patterns of modernization in both countries since the mid-19th Century.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2300****Latin America***Credit hours: 3.00**Contact hours per week: 3-0-0*

A social, cultural, political, religious, economic and ethnographic history of Latin America from pre-Columbian times to the present.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2450/HEALTH SCIENCES 2450****Evolution of Health and Illness Care***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines the evolution of health and illness care in Canada over four centuries, with an emphasis on the 20th Century. It emphasizes the historical development of medicine, nursing, social work, pharmacy, and public health as interrelated yet distinct spheres of practice. It also looks at how particular historical events and movements (Spanish Flu epidemic, World Wars I and II, modern hospital movement) helped to shape how Canadians perceive and provide illness and health care.

*Prerequisite(s): One course (3.0 credit hours) in History, Nursing, or Health Sciences*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2500****Themes in British Social and Political History***Credit hours: 3.00**Contact hours per week: 3-0-0*

Social, economic and political development in Britain from the Norman Conquest to the 20th Century.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2600****Main Themes in the History of the United States***Credit hours: 3.00**Contact hours per week: 3-0-0*

From colonial origins through the United States as a 20th-Century world power. Persistent themes, such as individualism, representative democracy, mission, capitalism and ethnocentrism.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2710****Canada to 1867***Credit hours: 3.00**Contact hours per week: 3-0-0*

Political, economic and social development in the eras of New France and British North America, the prelude to Confederation.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2720****Canada Since 1867***Credit hours: 3.00**Contact hours per week: 3-0-0*

Political, economic and social development in the Confederation era and the 20th Century.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 2800/WOMEN AND GENDER STUDIES 2800****History of Women***Credit hours: 3.00**Contact hours per week: 3-0-0*

The lives and diversity of women across North America or Europe from the 15th Century to contemporary times.

Organized around major themes rather than a chronology of events, topics may include the impact of industrialization and urbanization on women and families; women's reproductive behaviour and labour; suffrage, citizenship and the nation; women's access to education; and community and social activism.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level or Women and Gender Studies 1000*

*Recommended Background: History 2222*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 3007****Greek and Roman Mythology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the major myths of ancient Greece and Rome. The myths will not be treated in isolation but will be examined in the context of ancient Greek culture as a whole: the relationship of myth to contemporary religion, philosophy, and literature. In addition, some of the theories and interpretations of classical mythology which have been put forward in modern era will be discussed.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 3010****Law and Justice in Ancient Athens***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the development and workings of the legal system in democratic Athens and what that system reveals about Athenian Society.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level AND History 2001*

*Equivalent: History 3850 (Law and Justice in Ancient Athens) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities*

**HISTORY 3100****Greek and Roman Antiquity (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

The Greek and Roman World in antiquity. Offerings may include The Ancient Greek City States, The Hellenistic Age, The Roman Revolution, and The Later Roman Empire.

*Prerequisite(s): History 2001**Lib Ed Req: Fine Arts and Humanities***HISTORY 3103****The Crusades***Credit hours: 3.00**Contact hours per week: 3-0-0*

The origins, course, and effects of the Crusading Movement from the high Middle Ages to the early Modern period. Primary emphasis will be on Crusading in the East, although Northern, Spanish, and internal Crusades will also be considered.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level**Lib Ed Req: Fine Arts and Humanities***HISTORY 3152****Modern Germany***Credit hours: 3.00**Contact hours per week: 3-0-0*

Political, economic, social and cultural history of Germany, from 1780 to the present day.

*Prerequisite(s): History 2150**Lib Ed Req: Fine Arts and Humanities***HISTORY 3202****Imperial Russia - 1694-1917***Credit hours: 3.00**Contact hours per week: 3-0-0*

A history of the Russian Empire from the reign of Peter the Great to the October Revolution.

*Prerequisite(s): One of History 2102 or History 2150**Lib Ed Req: Fine Arts and Humanities***HISTORY 3203****The Soviet Union***Credit hours: 3.00**Contact hours per week: 3-0-0*

A history of the Soviet state under the leadership of Lenin, Stalin, Khrushchev, Brezhnev and Gorbachev.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level AND One additional course (3.0 credit hours) in History**Recommended Background:**One of History 2150 or History 2290**Lib Ed Req: Fine Arts and Humanities***HISTORY 3280****Imperial China***Credit hours: 3.00**Contact hours per week: 3-0-0*

Political, social, and intellectual history of China focusing on continuity and change during the Imperial period from 221 BCE to 1911 CE.

*Prerequisite(s): Two courses (6.0 credit hours) in History**Equivalent: History 3850 (Imperial China) (prior to 2020/2021)**Lib Ed Req: Fine Arts and Humanities***HISTORY 3290****Japan, 1570 to 1890***Credit hours: 3.00**Contact hours per week: 3-0-0*

Political, social, and intellectual history of Japan from state unification in the 1500s to the rise of the modern empire in 1890.

*Prerequisite(s): Two courses (6.0 credit hours) in History**Equivalent: History 3850 (Early Modern to Modern Japan) (prior to 2020/2021)**Lib Ed Req: Fine Arts and Humanities***HISTORY 3300****The Witch-hunts in Early Modern Europe***Credit hours: 3.00**Contact hours per week: 3-0-0*

The phenomenon of witch-hunting in early modern Europe. Dominant themes include demonology, popular culture, gender analysis, judicial process, religious reform, socio-economic contributions to the hunts, and the role of community in early modern society.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level**Substantially Similar:**Women and Gender Studies 3040 (Witchcraft: The Devil in a Woman's Body)**Lib Ed Req: Fine Arts and Humanities***HISTORY 3402****The Reformation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Major themes and developments of the Reformation, 1517-1648.

*Prerequisite(s): One of one course (3.0 credit hours) in History at the 1000 level or Religious Studies 2500**Lib Ed Req: Fine Arts and Humanities***HISTORY 3501****Early Modern Britain***Credit hours: 3.00**Contact hours per week: 3-0-0*

The prevalent social, political, economic and religious themes in England, Scotland, and Wales from 1485-1707.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level**Lib Ed Req: Fine Arts and Humanities***HISTORY 3560/HEALTH SCIENCES 3560****History of Nursing: Women and the Care of the Sick***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines the development of Canadian nursing from its religious roots in 17th-Century Quebec to the modern hospital movement of the 20th Century. It emphasizes ways in which politics, gender, race and religion helped to shape nursing into a predominantly hospital-based profession comprised of white women, and looks at the efforts of men and minority women to earn a place in nursing in Canada and elsewhere.

*Prerequisite(s): One course (3.0 credit hours) in Health Sciences, Nursing, or History**Lib Ed Req: Fine Arts and Humanities***HISTORY 3602****The United States from 1877 to the Present***Credit hours: 3.00**Contact hours per week: 3-0-0*

A social and political history of the United States from the post-Civil War period to the present. Major themes will include reform movements, cultural developments, America as a world power, and the relationship between the individual and the state.

*Prerequisite(s): History 2600**Lib Ed Req: Fine Arts and Humanities*

**HISTORY 3604****The History of the U.S. West***Credit hours: 3.00**Contact hours per week: 3-0-0*

A history of the United States West from pre-European contact to the present. Themes include pop culture representations, native-white relations, racial and religious diversity, and the growth of the state in the Trans-Mississippi West.

*Prerequisite(s):* One of History 1000 or History 1200 AND  
One course (3.0 credit hours) in History at the 2000 level

*Recommended Background:*  
History 2222 AND  
History 2600

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 3605****History and Culture of the American South***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the history and culture of the American South from the beginnings of European settlement to the late 20th century. Among the themes explored are race relations, gender expectations, religion, politics, violence, popular culture, and the existence of a distinct southern identity.

*Prerequisite(s):* One course (3.0 credit hours) in History at the 1000 level AND  
One additional course (3.0 credit hours) in History

*Recommended Background:*  
History 2600

*Equivalent:* History 3850 (History of the American South) (prior to 2016/2017);  
History 3850 (Southern History and Culture) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 3610****Slavery and Abolition in the Americas***Credit hours: 3.00**Contact hours per week: 3-0-0*

A history of events related to slavery and abolition in an American context, including themes of economics, race, politics, culture, and philosophy. This examination compares and contrasts the viewpoints of slaves, slaveholders, and those who fought to end the slave system.

*Prerequisite(s):* One course (3.0 credit hours) in History at the 1000 level AND  
One additional course (3.0 credit hours) in History

*Recommended Background:*  
History 2600

*Equivalent:* History 3850 (Slavery and Abolition in the Americas) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 3703****History of Western Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

The social, political and economic development of the four western provinces, from pre-contact to the late twentieth century.

*Prerequisite(s):* One of History 1000 or History 1200 AND  
One course (3.0 credit hours) in History at the 2000 level

*Recommended Background:*  
One of History 2710 or History 2720

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 3707****Canada Since 1939***Credit hours: 3.00**Contact hours per week: 3-0-0*

A social and political history concentrating on the period 1939-1980s. Factors of identity, including gender, ethnicity, culture and the family, will be considered, particularly in the context of state regulation.

*Prerequisite(s):* History 2720

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 3709****Canada: War and Peace***Credit hours: 3.00**Contact hours per week: 3-0-0*

A military history of Canada from pre-contact to the present. Themes include imperialism, nationalism, gender, and anti-war movements.

*Prerequisite(s):* One course (3.0 credit hours) in History at the 1000 level AND  
One additional course (3.0 credit hours) in History

*Equivalent:* History 3850 (Canada: War and Peace) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 3710****Canadian Cultural History***Credit hours: 3.00**Contact hours per week: 3-0-0*

A history of Canadian culture, including literature, art, music, theatre, and material culture, from the contact era to the present. Themes include aboriginal, ethnic, and regional culture, and the relationship between culture and nationalism.

*Prerequisite(s):* One course (3.0 credit hours) in History at the 1000 level AND  
One additional course (3.0 credit hours) in History

*Equivalent:* History 3850 (Canadian Cultural History) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 4001****Seminars in Ancient History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s):* History 2001 AND  
History 2222 AND  
Two additional courses (6.0 credit hours) in History AND  
Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 4010****Seminars in European History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s):* History 2222 AND  
Third-year standing (a minimum of 60.0 credit hours) AND  
Additional prerequisites will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Fine Arts and Humanities

**HISTORY 4040****Seminars in East Asian History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s): History 2222 AND History 2290 AND Two additional courses (6.0 credit hours) in History AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***HISTORY 4050****Seminars in British History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s): History 2222 AND History 2500 AND Two additional courses (6.0 credit hours) in History AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***HISTORY 4070****Seminars in Canadian History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s): History 2222 AND History 2710 AND History 2720 AND One additional course (3.0 credit hours) in History AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***HISTORY 4090****Seminars in World History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s): History 2222 AND Three additional courses (9.0 credit hours) in History AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***HISTORY 4100****Violence in Medieval Society***Credit hours: 3.00**Contact hours per week: 3-0-0*

Comparison of two types of violence in Western Europe during the Middle Ages: the interpersonal violence of everyday life, and the less common but often sensationalized violence of war. Particular emphasis will be placed on understanding how these two systems of violence paralleled and sustained one another, how gender, class, and religion affected ways in which Europeans defined and approached violence, and how violence changed over time and in different regions of Europe. Specific topics include: the ancient origins of medieval attitudes; medieval strategy, tactics, and logistics; dispute resolution; insult, feud, and duel; the 'feudal revolution'; chivalry; military literature; medieval peace movements (the Peace of God); criminalization and state control of violence; heresy, Inquisition, and torture; and domestic violence.

*Prerequisite(s): History 2222 AND One of History 2100, History 3103, History 3850 (Medieval Britain), or History 3850 (The Renaissance of the Twelfth Century) AND Two additional courses (6.0 credit hours) in History AND Third year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***HISTORY 4600****Civil Rights in the U.S.***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the Civil Rights Movement in the United States, from the establishment of segregation through to contemporary issues, with a particular emphasis on the 1950s and 1960s. Themes that will be considered include politics, culture, violence, and the tension between individual and group rights.

*Prerequisite(s): History 2222 AND History 2600 AND Two additional courses (6.0 credit hours) in History AND Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: History 4060 (Civil Rights in the U.S.) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities***HISTORY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct fieldwork, text or library-based research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.30 or higher AND A cumulative GPA of 3.30 on the last ten History courses AND A minimum of 10 courses (30.0 credit hours) in History AND History 2222 AND One Independent Study (3.0 credit hours) in History at the 3000 or 4000 level AND Application to the Department of History*

**Human Resources and Labour Relations (HRLR)**  
**Dhillon School of Business**

**HUMAN RESOURCES AND LABOUR RELATIONS 2030**  
**Introduction to Organizational Behaviour**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introduction to the study of human behaviour in organizations. This course provides the theoretical foundations for managing people in the workplace, and addresses behaviour at the individual, group, and organization levels. Students are introduced to topics such as job attitudes, personality, motivation, leadership, conflict theories, and team dynamics, among others.

*Corequisite(s): One of Management 1000 or Management 1500 AND One of Writing 1000, English 1900, final grade of 80% or higher in AB high school English Language Arts 30-I, successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs)), admission to the Finance Diploma program, or admission to a Certificate in Management program OR Admission to Bachelor of Management as a Second Degree program*

*Equivalent: Management 2030 (prior to 2021/2022)*

*Lib Ed Req: Social Science*

**HUMAN RESOURCES AND LABOUR RELATIONS 3050**  
**Human Resource Management**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The course provides an introduction to the field of human resource management. The intent is to increase the understanding of how human resource functions are a system that contributes to the organization's strategic objectives and how human resource management operates in a larger organizational, social and legal context through the study of topics such as job analysis/competencies, recruitment, selection, training, performance appraisal, legal issues, compensation and labour relations.

*Corequisite(s): One of Management 1000 or Management 1500*

*Equivalent: Management 3050 (prior to 2021/2022); Management 3050/Political Science 3420 (prior to 2017/2018)*

*Lib Ed Req: Social Science*

**HUMAN RESOURCES AND LABOUR RELATIONS 3305**  
**Managing Employee Health and Safety**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course provides an overview of the theory and practice of occupational health, safety and disability management. The content includes an overview of relevant Canadian legislation, the role of supervisors and human resource managers in OHS and disability management, as well as hazard recognition, risk assessment, promoting a culture of safety, and conducting proper incident investigations. Best practices for reintegrating employees with disabling health conditions are also covered.

*Corequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 3305 (prior to 2021/2022)*

**HUMAN RESOURCES AND LABOUR RELATIONS 3310**  
**Collective Labour Relations**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Right to organize; the acquisition of bargaining rights; loss of bargaining rights; duty to bargain in good faith; duty of fair representation; court enforcement of the collective agreement; strikes and picketing; construction industry labour relations.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 3310 (prior to 2021/2022)*

**HUMAN RESOURCES AND LABOUR RELATIONS 3312**  
**Strategic Compensation**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course provides an overview of the role that compensation and rewards management plays in organizational success. It is intended to help students understand how organizations can attract and retain top talent and how to encourage employees to perform well. Students will learn how to assess the internal and external environment and use that information to design a total rewards structure that aligns HR strategy with organizational goals. Concepts covered include pay systems, pensions, benefits and intangible rewards. Students will practice designing a total rewards system that is consistent, fair and legally compliant. They will learn how to evaluate the effectiveness of reward systems using appropriate metrics.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 3312 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 3315**

### **Diversity in Employment**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduces students to theoretical concepts that will assist in their understanding of what workplace diversity is and is not. Explores practical examples of the successful development of diversity programs in North America, and analyzes examples and causes of failure. The opportunities and challenges of diversity will be examined in the context of human resource management functions such as recruitment and selection, performance evaluation, the organization of work, the organization and planning of successful meetings and other communication in a diverse cultural environment.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 3315 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 4305**

### **Canadian Labour and Employment Law**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Labour law topics address employment relationships in a unionized setting and employment law addresses non-union employment relationships. Compare and contrast of union and non-union approaches to dispute resolution, human rights, privacy, workers' compensation, and occupational health and safety law.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 4305 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 4310**

### **Advanced Organizational Behaviour**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An in-depth exploration and analysis of new areas of research and current debates in organizational behaviour. Examples of topics that may be addressed include leadership, conflict management, power and politics, goal setting, and cultural diversity.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 4310 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 4315**

### **Performance Management**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course provides an in-depth look at performance management. Performance management involves a number of continuous activities including: defining performance in the context of specific organizations and jobs, measuring performance, improving and developing the performance of individuals and groups, and aligning performance with the strategic objectives of the organization.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 4315 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 4330**

### **The Art of Negotiations and Bargaining**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Develop negotiation knowledge and skills in a variety of organizational situations. Includes legal and theoretical frameworks, collective bargaining, preparation, negotiation techniques, and contract language clarity. Substantial experiential component.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 4330 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 4350**

### **Staffing**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course covers staffing-related topics dealing with obtaining and maintaining a productive workforce. Students will study topics such as strategic planning for staffing, job analysis, recruiting, selection, legal issues, international staffing, and decision-making through theoretical and quantitative analysis.

*Prerequisite(s): Management 2700 AND Human Resources and Labour Relations 3050 OR Health Sciences 3260 or Addictions Counselling 3260 AND Health Sciences 3450/ Psychology 3450 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 4350 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 4355**

### **Training and Development**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A comprehensive study of training and development in organizations. Topics may include: employee learning, needs analysis, training methods, training delivery, and training evaluation.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 4355 (prior to 2021/2022)*

## **HUMAN RESOURCES AND LABOUR RELATIONS 4370**

### **Leadership in Organizations**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An in-depth study of leadership theories; an overview of the historic development of leadership thought; leadership in the workplace through the critical analysis of leadership theory, research and practice.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

*Equivalent: Management 4370 (prior to 2021/2022)*

## HUMAN RESOURCES AND LABOUR RELATIONS 4390

### Leading Organizational Change

Credit hours: 3.00

Contact hours per week: 3-0-0

This course focuses on the theory and practice of organizational change in response to the challenges faced by organizations when they expand

**Prerequisite(s):** Management 3031 AND Human Resources and Labour Relations 3050 AND Management 3062 AND Fourth-year standing (a minimum of 90.0 credit hours)

**Equivalent:** Management 4390 (prior to 2021/2022)

## Indigenous Governance and Business Management (IGBM) Dhillon School of Business

## INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 2500

### Introduction to Indigenous Governance and Business Management

Credit hours: 3.00

Contact hours per week: 3-0-0

Addressing the stories and myths surrounding the relationship between Indigenous nations, the colony and the nation of Canada, this course is a useful introduction to Indigenous governance and business management issues. This course examines the relationship between Canadian Indigenous governance business management. This course will introduce Indigenous business and governance models of the Metis, Inuit and Indian—including Indian Act and Indigenous nationhood—peoples. Students will look at past, present and potential future constructions and explore strategic partnerships and relationships including nation-to-nation, provincial, municipal and with other Indigenous nations. Students will investigate issues surrounding business practices On and Off Reserve, For-Profit, Not-For-Profit and other possibilities and potentialities.

**Equivalent:** Management 2500 (prior to 2021/2022); Management 2850 (Introduction to Indigenous Governance and Business Management) (prior to 2018/2019)

**Lib Ed Req:** Fine Arts and Humanities

## INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3250/ INDIGENOUS STUDIES 3250

### Financial Management in Canadian Indigenous Communities

Credit hours: 3.00

Contact hours per week: 3-0-0

Financial Management in Indigenous communities offers a practical introduction to financial decision making for students with no previous exposure to accounting or finance principles. Utilizing a full range of tools, the course enables students to master the language and concepts of finance and accounting to assist them in future careers as managers or entrepreneurs. The course focus is on applying these basic concepts to the unique financial environment found in Indigenous communities.

**Corequisite(s):** One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000

**Equivalent:** Management 3500/Indigenous Studies 3250 (prior to 2021/2022); Management 3500/Native American Studies 3250 (prior to 2019/2020)

**Lib Ed Req:** Fine Arts and Humanities

## INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3280/ INDIGENOUS STUDIES 3280

### Indigenous Peoples and Natural Resources

Credit hours: 3.00

Contact hours per week: 3-0-0

This course explores the opportunities and constraints that Indigenous peoples encounter in their efforts to use water resources, fisheries, forestry resources, wildlife, land and non-renewable resources, and to gain management over these resources.

**Corequisite(s):** Indigenous Governance and Business Management 2500 or Indigenous Studies 1000

**Equivalent:** Management 3580/Indigenous Studies 3280 (prior to 2021/2022); Management 3580/Native American Studies 3280 (prior to 2019/2020)

**Lib Ed Req:** Fine Arts and Humanities

## INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3506/ INDIGENOUS STUDIES 3506

### Indigenous Business and Entrepreneurship in Canada

Credit hours: 3.00

Contact hours per week: 3-0-0

Indigenous communities have an increasing interest in business ventures and entrepreneurship. This course provides the theoretical and practical knowledge necessary to establish and manage a variety of business initiatives. Various technical and policy issues will be covered.

**Prerequisite(s):** One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000

**Equivalent:** Management 3506/Indigenous Studies 3506 (prior to 2021/2022); Management 3506/Native American Studies 3506 (prior to 2019/2020)

**Lib Ed Req:** Fine Arts and Humanities

## INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3515/ INDIGENOUS STUDIES 3515

### Canadian Indigenous Negotiations

Credit hours: 3.00

Contact hours per week: 3-0-0

This course will focus on negotiations from an Indigenous perspective looking at four distinct Indigenous negotiation approaches: negotiations before Contact; traditional Western ideas of negotiation including Hard and Soft techniques, treaty, specific claims and modern agreements; the Harvard model of Principled Negotiations, specifically the need for relationship and alternatives to negotiated agreements; and the potential future state of negotiations and the need to change engagement, consultation and compromise. There will be a number of Master classes where Indigenous knowledge holders will share their unique understanding (TK) and answer questions. Suitable for anyone wishing to work for or with Indigenous peoples in any capacity.

**Corequisite(s):** One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000

**Equivalent:** Management 3515 (prior to 2021/2022); Management 3850 (Aboriginal Negotiations) (prior to 2018/2019)

**Lib Ed Req:** Social Science



### **INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3522/ INDIGENOUS STUDIES 3522**

#### **Canadian Indigenous Project Management**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Though addressing some of the basic ideas of standard Project Management Professional training, this course diverges in focus looking at issues that are distinct to managing projects for, with or in conjunction with Indigenous peoples. Project Management is one of the most in-demand fields within government and finance, and Canadian Indigenous nations continue to have massive growth. Creating, maintaining and completing projects that are Indigenous in nature come with unique challenges and opportunities. Using real life examples, students will explore the issues distinct to Indigenous projects and potentially create real world solutions. This course is an excellent addition to Management 3920 (Project Management) and can also be taken as a stand-alone for anyone that plans to engage in Project Management in Canada.

*Recommended Background:*

*One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000*

*Equivalent:* Management 3522 (prior to 2021/2022); Management 3850 (Aboriginal Project Management) (prior to 2018/2019)

*Lib Ed Req:* Social Science

### **INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3590/ INDIGENOUS STUDIES 3590**

#### **Current Practices in Canadian Indigenous Governance**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course focuses on contemporary Indigenous governments, their relationship with their constituencies and the value systems within which they operate, and the developmental and managerial challenges they face.

*Corequisite(s):* One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000

*Equivalent:* Management 3590/Indigenous Studies 3590 (prior to 2021/2022); Management 3590/Native American Studies 3590 (prior to 2019/2020)

*Lib Ed Req:* Fine Arts and Humanities

### **INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3592/ INDIGENOUS STUDIES 3592**

#### **Applied Indigenous Management Issues (Series)**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Other hours per term: 0-0-40*

An in-depth examination of contemporary issues in Indigenous management. Learning occurs within the classroom and through the required study tour and/or site visits to various relevant on and off reserve locales to meet with experts and Indigenous leaders (trips may be to British Columbia, Alberta, Saskatchewan, or other provinces or countries depending on the term and series topic). Topics may include community economic development, resource development, environmental policies, treaty and government policies and relations, human resource management, Indigenous business models and development of various entrepreneurial enterprises. Students will have a unique opportunity to gain a greater understanding of cultural, business and economic aspects of Indigenous management and governance issues.

*Prerequisite(s):* Successful application to

*Applied Indigenous Management Issues (Series) course AND*

*Third-year standing (a minimum of 60.0 credit hours) AND*

*One of Indigenous Governance and Business*

*Management 2500 or Indigenous Studies 1000*

*Equivalent:* Management 3592 (prior to 2021/2022)

**Note:** Apply online at: [www.ulethbridge.ca/dhillon/igbm3592](http://www.ulethbridge.ca/dhillon/igbm3592)

### **INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4120/ INDIGENOUS STUDIES 4120**

#### **Historical and Legal Aspects of Canadian Indigenous Governments**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Historical and legal exploration of Indigenous Governments, including pre-European contact, traditional forms of governments to present forms of

*Prerequisite(s):* One of Indigenous Governance and Business

*Management 2500 or Indigenous Studies 1000*

*Recommended Background:*

*Indigenous Studies 2100*

*Equivalent:* Management 4507/Indigenous Studies 4120 (prior to 2021/2022);

*Management 4507/Native American Studies 4120 (prior to 2019/2020)*

*Lib Ed Req:* Fine Arts and Humanities

### **INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4150/ INDIGENOUS STUDIES 4150**

#### **Administrative Aspects of Canadian Indigenous Governments**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of infrastructures and organization of Indigenous Governments and their administration of education, housing, public works, policing, social services, natural resources, health, and other programs.

*Prerequisite(s):* One of Indigenous Governance and Business

*Management 2500 or Indigenous Studies 1000*

*Recommended Background:*

*Indigenous Studies 2100*

*Equivalent:* Management 4508/Indigenous Studies 4150 (prior to 2021/2022);

*Management 4508/Native American Studies 4150 (prior to 2019/2020)*

*Lib Ed Req:* Fine Arts and Humanities

## INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4501/ INDIGENOUS STUDIES 4501

### Canadian Indigenous Tax Issues

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The issues surrounding taxation as it applies to Indigenous populations in Canada are very complex and far too often misunderstood. This course will attempt to address and dispel the understanding of the exceptional nature of taxation as it applies to Indian, Metis and Inuit populations. This course will not only make students acquainted with the tax benefits that apply to citizens recognized as Indian under the Canadian Indian Act but also the restrictions and obligations that come with that classification. Topics will include section 87 of the Indian Act, its effect on income tax, GST/HST and excise taxes. These will then address proper business and taxation practices for On-Reserve employees, clients, contractors and the like as well as those same practices for Off-Reserve circumstances.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Recommended Background:*  
Indigenous Studies 2100

*Equivalent:* Management 4501 (prior to 2021/2022)

## INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4570/ INDIGENOUS STUDIES 4570

### Indigenous Leadership and Management

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The fields of leadership and management are essential within Indigenous communities across the country and Indigenous communities around the world. Effective management and leadership are also imperative for those wanting to do business in Canada today and into the future. Whether looking at environment, mining, forestry, tourism, not-for-profit, government or private sector, Indigenous and non-Indigenous people alike must work together to lead our communities into a better future managing the intricacies of working with Indigenous communities. It is urgent and essential that all leaders and managers understand the Indigenous world perspectives, where they stem from, how they have evolved and where we can take them into the future. Using best practices and wise practices students will build a strategic plan for the future.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)  
AND

One of Indigenous Governance and Business  
Management 2500 or  
Indigenous Studies 1000

*Equivalent:* Management 4570 (prior to 2021/2022);  
Management 4850  
(Indigenous Leadership and Management) (prior to 2017/2018)

*Lib Ed Req:* Social Science

## Indigenous Student Success Cohort (ISSC)

*Faculty of Arts and Science*

## INDIGENOUS STUDENT SUCCESS COHORT 0520

### Mathematical Reasoning and Application

*Credit hours: 3.00*

*Contact hours per week: 3-0-1*

Overview of various applications of mathematics useful for students in any major. The topics covered include operations on numbers; applications of linear relationships; percentages and exponential relationships; basic probability; and descriptive statistics.

*Prerequisite(s):* Admission to the Indigenous Student Success Cohort

*Equivalent:* First Nations' Transition 0520 (prior to 2020/2021)

*Lib Ed Req:* Science

## INDIGENOUS STUDENT SUCCESS COHORT 0524

### Quest for Success I

*Credit hours: 1.50*

*Contact hours per week: 1.5-0-0*

Biweekly gathering of instructors and students, with the goal of fostering a learning community among first-year students. Through group discussions, speaker presentations, and hands-on activities, students learn computer and study skills, become familiar with the services available to them as Indigenous students, are exposed to speakers from various departments on campus and from the community, and receive support in overcoming roadblocks they encounter in the transition to university.

*Prerequisite(s):* Admission to the Indigenous Student Success Cohort

*Equivalent:* First Nations' Transition 0524 (prior to 2020/2021)

*Grading:* Pass/Fail

## INDIGENOUS STUDENT SUCCESS COHORT 0525

### Quest for Success II

*Credit hours: 1.50*

*Contact hours per week: 1.5-0-0*

Biweekly gathering of instructors and students, with the goal of fostering a learning community among first-year students. Through group discussions, speaker presentations, and hands-on activities, students learn computer and study skills, become familiar with the services available to them as Indigenous students, are exposed to speakers from various departments on campus and from the community, and receive support in overcoming roadblocks they encounter in the transition to university.

*Prerequisite(s): Admission to the Indigenous Student Success Cohort*

*Equivalent: First Nations' Transition 0525 (prior to 2020/2021)*

*Grading: Pass/Fail*

## Indigenous Studies (INDG) Faculty of Arts and Science

## INDIGENOUS STUDIES 1000 Introduction to Indigenous Studies I: Canadian Contexts

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to the Canadian Indigenous context through a focus on FNMI perspectives of space and place, contact, law, ethnohistory, colonialism, segregation, integration, languages, aesthetics and diverse historical relations. Resistant interpretations of conventional wisdom with regards to FNMI/colonial relations. This course is especially targeted at students considering a career in any occupation in which they will be interacting with Indigenous peoples, while increasing general understanding of, and sensitivity toward, Canadian Indigenous perspectives.

*Equivalent: Native American Studies 1000 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 1010 Introduction to Indigenous Studies II: Global Perspectives

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to the major concepts and themes studied within the discipline of Indigenous Studies. Introduction to global Indigenous epistemologies, theories, and methodologies, including: perspectives of space and place, contact, law, ethnohistory, settler-colonialism, segregation, integration, languages, aesthetics, diverse historical relations, and contemporary cultures. This course is especially targeted at students considering a career in any occupation in which they will be interacting with Indigenous peoples, while increasing students' general understanding of, and sensitivity toward, global Indigenous perspectives.

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 1100/ LINGUISTICS 1100 Language and Culture in Indigenous America

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Overview of language and culture in Indigenous communities, with an emphasis on North America. Topics may include: language structure, language in cultural and social domains, language and writing, language contact, and language and time. No prior knowledge is required.

*Equivalent: First Nations' Transition 1850 (Introduction to North American Indigenous Languages) (prior to 2020/2021); Native American Studies 1850 (Introduction to North American Indigenous Languages) (prior to 2020/2021); Indigenous Studies 1850/ Linguistics 1850 (Introduction to North American Indigenous Languages) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 2000 Native American Philosophy

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of the underlying philosophies, perceptions of reality and world-views of Native Americans.

*Prerequisite(s): Indigenous Studies 1000*

*Equivalent: Native American Studies 2000 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 2100 Indigenous Peoples and Law

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Historical and comparative exploration of the role of law in managing relationships between Indigenous peoples and immigrants, including an introduction to basic concepts and theories in human rights, Western jurisprudence, and the study of Colonial and post-Colonial societies, focusing on Canadian Indigenous peoples, their Aboriginal rights, treaties, and the operation of the Indian Act.

*Prerequisite(s): Indigenous Studies 1000*

*Equivalent: Native American Studies 2100 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 2300 North American Indigenous Art History and Theory

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of the political, cultural, and historical arguments for North American Indigenous art. Theoretical and historical topics of discussion will be of primary concern.

*Equivalent: Native American Studies 2300 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 2350/ ART 2350

### Indigenous Art Studio I

*Credit hours: 3.00*

*Contact hours per week: 5-0-0 or 6-0-0*

This course provides an introduction to both traditional and contemporary forms of Indigenous creative and cultural practices, with a focus on the

*Equivalent: Native American Studies 2350/ Art 2350 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.

*For sections where Art 2350/Indigenous Studies 2350 is offered twice weekly, an extra hour is required per week for set up and clean up.*

**INDIGENOUS STUDIES 2360****Indigenous Popular Cultures***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of Indigenous self-representations in pop culture and the many vibrant forms of contemporary Indigenous creativity through an examination of video games, graphic novels, music, tv, movies, visual expression, comedy, and social media.

*Prerequisite(s): Indigenous Studies 1010**Recommended Background:**New Media 1000;**Indigenous Studies 1000*

*Equivalent: Indigenous Studies 2850 (Indigenous Popular Culture) (prior to 2020/2021); Native American Studies 2850 (Indigenous Popular Culture) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 2400****Comparative Traditional Indigenous Economies***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of the interrelationships between technology, ecology, culture, and the distribution of goods in Indigenous societies, with a focus on status and power in Indigenous societies, and the changes brought about by their historical integration into market economies. This course draws on Indigenous philosophies and on analytic methods from geography, economic anthropology, and sociology.

*Prerequisite(s): One of Indigenous Studies 1000, Indigenous Studies 1010, or Anthropology 1000*

*Equivalent: Native American Studies 2400 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 2455****Social Organization: Kinship***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of kinship as the fundamental unit of social organization in all cultures except the industrial state. Topics may include examination of kinship principles; the social and psychological effects of kinship organization; the relationship between kinship and environment; descent, marriage, and relationships to ancestors; gender and power relations; adoption; and the politics of kinship ties.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Recommended Background:**Indigenous Studies 1000;**Indigenous Studies 1010;**Indigenous Studies 1100/**Linguistics 1100;**Anthropology 1000*

*Equivalent: Native American Studies 2850 (First Nations and Kinship) (prior to 2020/2021); Indigenous Studies 2850 (First Nations and Kinship) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 2500****Indigenous Histories of Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of the multiple histories, from creation to the present day, of the Indigenous peoples across what is now Canada.

*Prerequisite(s): Indigenous Studies 1000*

*Equivalent: Native American Studies 2500 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 2550****Indigenous Histories of the United States***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of multiple histories of the Indigenous Peoples from creation to the present day, across what is now the United States and U.S. Territories.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010*

*Equivalent: Native American Studies 2550 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 2605/****ENGLISH 2605****Introduction to Indigenous Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of Indigenous literature with a focus on literature by Indigenous authors.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010*

*Recommended Background:**English 1900*

*Equivalent: Indigenous Studies 2600 (prior to 2022/2023); Native American Studies 2600 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 2700****Indigenous Women***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of the traditional and contemporary role of women in Indigenous culture and society, including the impact of external policy decisions on these roles.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010*

*Equivalent: Native American Studies 2700 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 2750/****LINGUISTICS 2750****Endangered Languages***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the issues of language endangerment and language shift, and the methods and techniques that can help ensure the vitality of endangered languages.

*Prerequisite(s): One course (3.0 credit hours) in Linguistics*

*Equivalent: Native American Studies 2850/ Linguistics 2850 (Sustainable Language Revitalization) (prior to 2020/2021); Native American Studies 3850 (Indigenous Language Endangerment and Revitalization) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities*

**INDIGENOUS STUDIES 3000****Native American Philosophy - Advanced***Credit hours: 3.00**Contact hours per week: 3-0-0*

Philosophical examination of Native American religious beliefs.

*Prerequisite(s): Indigenous Studies 2000**Equivalent: Native American Studies 3000 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 3220****Oral Histories/Life Stories***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theory and methodology of oral histories and life stories through applied practice including ethics applications, interviewing and other data collection techniques, and data analysis.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010 AND Second-year standing (a minimum of 30.0 credit hours)**Recommended Background: Anthropology 1000**Equivalent: Native American Studies 3850 (Life Stories and Oral Histories) (prior to 2020/2021)**Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 3250/  
INDIGENOUS GOVERNANCE AND  
BUSINESS MANAGEMENT 3250  
Financial Management in Canadian  
Indigenous Communities***Credit hours: 3.00**Contact hours per week: 3-0-0*

Financial Management in Indigenous communities offers a practical introduction to financial decision making for students with no previous exposure to accounting or finance principles. Utilizing a full range of tools, the course enables students to master the language and concepts of finance and accounting to assist them in future careers as managers or entrepreneurs. The course focus is on applying these basic concepts to the unique financial environment found in Indigenous communities.

*Corequisite(s): One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000**Equivalent: Indigenous Studies 3250/ Management 3500 (prior to 2021/2022); Native American Studies 3250/ Management 3500 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 3280/  
INDIGENOUS GOVERNANCE AND  
BUSINESS MANAGEMENT 3280  
Indigenous Peoples and Natural  
Resources***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course explores the opportunities and constraints that Indigenous peoples encounter in their efforts to use water resources, fisheries, forestry resources, wildlife, land and non-renewable resources and to gain management over these resources.

*Corequisite(s): One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000**Equivalent: Indigenous Studies 3280/ Management 3580 (prior to 2021/2022); Native American Studies 3280/ Management 3580 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 3300****Canadian Indigenous Art History and Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of the political, cultural, and historical arguments for Canadian Indigenous art. Theoretical and historical topics of discussion will be of primary concern.

*Prerequisite(s): Indigenous Studies 2300**Equivalent: Native American Studies 3300 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 3350/  
ART 3350****Indigenous Art Studio II***Credit hours: 3.00**Contact hours per week: 5-0-0 or 6-0-0*

This advanced course is focused on both traditional and contemporary forms of Indigenous creative and cultural practices within a studio environment. Students will be expected to independently apply their conceptual, technical, and creative skills in the research and production of artistic projects in a range of disciplinary and interdisciplinary practices. Understanding that art making is linked with academic explorations, students will examine their artwork in relation to significant fields of contemporary thought, while focusing on specific themes introduced in this course.

*Prerequisite(s): Indigenous Studies 2350/ Art 2350**Equivalent: Native American Studies 3350/ Art 3350 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

For sections where Indigenous Studies 3350/Art 3350 is offered twice weekly, an extra hour is required per week for set up and clean up.

## INDIGENOUS STUDIES 3355/ ART 3355

### Landmarks

*Credit hours: 3.00*

*Contact hours per week: 5-0-0 or  
6-0-0*

This course focuses on conceptual, technical and creative skills in the research and production of contemporary art projects. Students engage photo, video, drawing, spatial, performance, installation, and interdisciplinary practices. At its core, this course is about embodied storytelling, and the ways in which we might participate with the landscape while exploring our individual relationships with the living archive of a specific location, and its rich cultural histories.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: Art 3850 (Landmarks) (prior to 2021/2022)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.

*For sections where Indigenous Studies 3355/Art 3355 is offered twice weekly, an extra hour is required per week for set up and clean up.*

## INDIGENOUS STUDIES 3370

### Indigenous Cinema

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An examination of Indigenous "Fourth World" cinema, focussing on Indigenous aesthetics as the critical framework. Discussion of themes such as representation, land, colonialism, identity, belonging, the past, storytelling, survival, resistance, revitalization, and Indigenous futures, using Indigenous methodologies and decolonial theories.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010 AND Two additional courses (6.0 credit hours) in Indigenous Studies*

*Recommended Background: Indigenous Studies 2360*

*Equivalent: Indigenous Studies 3850 (Indigenous Cinema) (prior to 2022/2023)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 3450

### Indigenous Resistance in the Anglo-Settler States (1640-1960)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A comparative exploration of historical Indigenous resistance and activism (in its many forms) across the four Anglo-Settler CANZUS states (Canada, Australia, New Zealand, and United States) from 1640 to 1960.

*Prerequisite(s): Indigenous Studies 1010 AND One course (3.0 credit hours) in Indigenous Studies at 2000 level*

*Equivalent: Indigenous Studies 3850 (Comparative Indigenous Resistance I) (prior to 2020/2021); Native American Studies 3850 (Comparative Indigenous Resistance I) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 3500

### Indigenous Treaties in an International Context

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An examination of the contemporary and historic domestic and international consequences and responsibilities of the treaty relationships between Indigenous nations and Canada, the United States, and European empires.

*Prerequisite(s): One of Indigenous Studies 2500 or Indigenous Studies 2550*

*Equivalent: Native American Studies 3500 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 3506/ INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3506

### Indigenous Business and Entrepreneurship in Canada

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Indigenous communities have an increasing interest in business ventures and entrepreneurship. This course provides the theoretical and practical knowledge necessary to establish and manage a variety of business initiatives. Various technical and policy issues will be covered.

*Prerequisite(s): One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000*

*Equivalent: Indigenous Studies 3506/Management 3506 (prior to 2021/2022); Native American Studies 3506/Management 3506 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## INDIGENOUS STUDIES 3515/ INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 3515

### Canadian Indigenous Negotiations

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course will focus on negotiations from an Indigenous perspective looking at four distinct Indigenous negotiation approaches: negotiations before Contact; traditional Western ideas of negotiation including Hard and Soft techniques, treaty, specific claims and modern agreements; the Harvard model of Principled Negotiations, specifically the need for relationship and alternatives to negotiated agreements; and the potential future state of negotiations and the need to change engagement, consultation and compromise. There will be a number of Master classes where Indigenous knowledge holders will share their unique understanding (TK) and answer questions. Suitable for anyone wishing to work for or with Indigenous peoples in any capacity.

*Corequisite(s): One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000*

*Equivalent: Management 3515 (prior to 2021/2022); Management 3850 (Aboriginal Negotiations) (prior to 2018/2019)*

*Lib Ed Req: Social Science*

**INDIGENOUS STUDIES 3522/  
INDIGENOUS GOVERNANCE AND  
BUSINESS MANAGEMENT 3522**  
**Canadian Indigenous Project  
Management**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Though addressing some of the basic ideas of standard Project Management Professional training, this course diverges in focus looking at issues that are distinct to managing projects for, with, or in conjunction with Indigenous peoples.

Project Management is one of the most in-demand fields within government and finance, and Canadian Indigenous nations continue to have massive growth. Creating, maintaining and completing projects that are Indigenous in nature come with unique challenges and opportunities. Using real life examples, students will explore the issues distinct to Indigenous projects and potentially create real world solutions. This course is an excellent addition to Management 3920 (Project Management) and can also be taken as a stand-alone for anyone that plans to engage in Project Management in Canada.

*Recommended Background:*

*One of Indigenous Governance  
and Business  
Management 2500 or  
Indigenous Studies 1000*

*Equivalent: Management 3522 (prior to  
2021/2022);  
Management 3850 (Aboriginal  
Project Management) (prior to  
2018/2019)*

*Lib Ed Req: Social Science*

**INDIGENOUS STUDIES 3550**  
**Settler Colonial Policies and  
Indigenous Sovereignities**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Federal Indigenous law and policy in the CANZUS states (Canada, Australia, New Zealand, United States) from 1763 to the present day. The course examines how Settler expansion, removal, and assimilation policies affect Indigenous Peoples and how federal laws, and imposed individual citizenships, affect Indigenous rights of nationhood and cultural freedoms in the four Settler-Nation states.

*Prerequisite(s): One of Indigenous  
Studies 2500 or Indigenous  
Studies 2550*

*Equivalent: Native American Studies 3550  
(prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

**INDIGENOUS STUDIES 3590/  
INDIGENOUS GOVERNANCE AND  
BUSINESS MANAGEMENT 3590**  
**Current Practices in Canadian  
Indigenous Governance**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course focuses on contemporary Indigenous governments, their relationship with their constituencies and the value systems within which they operate, and the developmental and managerial challenges they face.

*Corequisite(s): One of Indigenous Governance  
and Business  
Management 2500 or  
Indigenous Studies 1000*

*Equivalent: Indigenous Studies 3590/  
Management 3590 (prior to  
2021/2022);  
Native American Studies 3590/  
Management 3590 (prior to  
2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

**INDIGENOUS STUDIES 3592/  
INDIGENOUS GOVERNANCE AND  
BUSINESS MANAGEMENT 3592**  
**Applied Indigenous Management  
Issues (Series)**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Other hours per term: 0-0-40*

An in-depth examination of contemporary issues in Indigenous management. Learning occurs within the classroom and through the required study tour and/or site visits to various relevant on and off reserve locales to meet with experts and Indigenous leaders (trips may be to British Columbia, Alberta, Saskatchewan, or other provinces or countries depending on the term and series topic). Topics may include community economic development, resource development, environmental policies, treaty and government policies and relations, human resource management, Indigenous business models and development of various entrepreneurial enterprises. Students will have a unique opportunity to gain a greater understanding of cultural, business and economic aspects of Indigenous management and governance issues.

*Prerequisite(s): Successful application to  
Applied Indigenous  
Management Issues (Series)  
course AND  
Third-year standing (a  
minimum of 60.0 credit hours)  
AND*

*One of Indigenous Governance  
and Business*

*Management 2500 or  
Indigenous Studies 1000*

*Equivalent: Management 3592 (prior to  
2021/2022)*

**Note:** Apply online at: [www.ulethbridge.ca/dhillon/mgt3592](http://www.ulethbridge.ca/dhillon/mgt3592)

## **INDIGENOUS STUDIES 3605/ ENGLISH 3605**

### **Indigenous Literature - Advanced**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Indigenous philosophy and thought as reflected in contemporary Indigenous literature.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010 AND One of English 2605/ Indigenous Studies 2605 or one course (3.0 credit hours) in English at the 2000 level*

*Recommended Background: Indigenous Studies 2000*

*Equivalent: Indigenous Studies 3600 (prior to 2022/2023); Native American Studies 3600 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

*List/Subfield: English Subfield 7 - Canadian and Post-Colonial*

## **INDIGENOUS STUDIES 3700**

### **Indigenous Health**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Examination of the health beliefs, concepts, and history of the First Nations, Métis, and Inuit of Canada, and Indigenous peoples elsewhere, including Indigenous population health before and during the colonial era through to the present day.

*Prerequisite(s): One of Indigenous Studies 1000 or Indigenous Studies 1010 AND Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Native American Studies 3700 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## **INDIGENOUS STUDIES 3860**

### **Seminar in Indigenous North American Histories, Archaeologies, and Cultures (Series)**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Detailed examination of topics in the prehistories, histories, and cultures of selected Indigenous Nations or culture areas.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND Additional prerequisites will be specified (including any recommended background) for individual offerings*

*Equivalent: Indigenous Studies 3850 (The Circumpolar North) (prior to 2020/2021) is equivalent to the same offering in the Indigenous Studies 3860 Series; Native American Studies 3850 (Cradle of American Civilization) (prior to 2020/2021) is equivalent to the same offering in the Indigenous Studies 3860 Series; Native American Studies 2850 (Cradle of American Civilization) (prior to 2020/2021) is equivalent to the same offering in the Indigenous Studies 3860 Series; Native American Studies 4850 (Indigenous Nations of the North West Coast) (prior to 2020/2021) is equivalent to the same offering in the Indigenous Studies 3860 Series*

*Lib Ed Req: Fine Arts and Humanities*

## **INDIGENOUS STUDIES 4120/ INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4120**

### **Historical and Legal Aspects of Canadian Indigenous Governments**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Historical and legal exploration of Indigenous Governments, including pre-European contact, traditional forms of governments and present forms of Indigenous Governments under Canadian Law. Examination of sources of legal authority, legal status, and powers of Indigenous Governments, including sovereignty and case law.

*Prerequisite(s): One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000*

*Recommended Background: Indigenous Studies 2100*

*Equivalent: Indigenous Studies 4120/ Management 4507 (prior to 2021/2022); Native American Studies 4120/ Management 4507 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

## **INDIGENOUS STUDIES 4150/ INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4150**

### **Administrative Aspects of Canadian Indigenous Governments**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Survey of infrastructures and organization of Indigenous Governments and their administration of education, housing, public works, policing, social services, natural resources, health, and other programs.

*Prerequisite(s): One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000*

*Recommended Background: Indigenous Studies 2100*

*Equivalent: Indigenous Studies 4150/ Management 4508 (prior to 2021/2022); Native American Studies 4150/ Management 4508 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*



**INDIGENOUS STUDIES 4400****Indigenous Peoples and the Criminal Justice System***Credit hours: 3.00**Contact hours per week: 3-0-0**Criminal justice, the penal system, and Indigenous peoples.**Prerequisite(s): Indigenous Studies 2100 AND Third-year standing (a minimum of 60.0 credit hours)**Equivalent: Native American Studies 4400 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 4450****Indigenous Resistance in the Anglo-Settler States (1960-Present)***Credit hours: 3.00**Contact hours per week: 3-0-0**Seminar in Indigenous resistance since 1960, focussing on the four countries that initially rejected the 2007 United Nations Declaration on the Rights of Indigenous Peoples: Canada, Australia, Aotearoa/New Zealand, and the United States, also known as the CANZUS states. Exploration of the growing trans-national Indigenous solidarity that is erasing settler-national boundaries and creating a series of global Indigenous movements that seek cultural, political, economic, environmental, and social justice in non-Indigenous settler-colonial states.**Prerequisite(s): Indigenous Studies 1000 AND Indigenous Studies 1010 AND Indigenous Studies 3450 AND One of Indigenous Studies 2500 or Indigenous Studies 2550**Equivalent: Indigenous Studies 4850 (Indigenous Resistance in the Anglo-Settler States (1960-Present)) (prior to 2022/2023); Indigenous Studies 4850 (Comparative Indigenous Resistance II) (prior to 2022/2023); Native American Studies 4850 (Comparative Indigenous Resistance II) (prior to 2022/2023)**Lib Ed Req: Fine Arts and Humanities***INDIGENOUS STUDIES 4501/****INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4501****Canadian Indigenous Tax Issues***Credit hours: 3.00**Contact hours per week: 3-0-0**The issues surrounding taxation as it applies to Indigenous populations in Canada are very complex and far too often misunderstood. This course will attempt to address and dispel the understanding of the exceptional nature of taxation as it applies to Indian, Metis and Inuit populations. This course will not only make students acquainted with the tax benefits that apply to citizens recognized as Indian under the Canadian Indian Act but also the restrictions and obligations that come with that classification. Topics will include section 87 of the Indian Act, its effect on income tax, GST/HST and excise taxes. These will then address proper business and taxation practices for On-Reserve employees, clients, contractors and the like as well as those same practices for Off-Reserve circumstances.**Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Recommended Background: Indigenous Studies 2100**Equivalent: Management 4501 (prior to 2021/2022)***INDIGENOUS STUDIES 4570/****INDIGENOUS GOVERNANCE AND BUSINESS MANAGEMENT 4570****Indigenous Leadership and Management***Credit hours: 3.00**Contact hours per week: 3-0-0**The fields of leadership and management are essential within Indigenous communities across the country and Indigenous communities around the world. Effective management and leadership are also imperative for those wanting to do business in Canada today and into the future. Whether looking at environment, mining, forestry, tourism, not-for-profit, government or private sector, Indigenous and non-Indigenous people alike must work together to lead our communities into a better future managing the intricacies of working with Indigenous communities. It is urgent and essential that all leaders and managers understand the Indigenous world perspectives, where they stem from, how they have evolved and where we can take them into the future Using best practices and wise practices students will build a strategic plan for the future.**Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND**One of Indigenous Governance and Business Management 2500 or Indigenous Studies 1000**Equivalent: Management 4570 (prior to 2021/2022); Management 4850 (Indigenous Leadership and Management) (prior to 2017/2018)**Lib Ed Req: Social Science*

**INDIGENOUS STUDIES 4650****Orality, Literacy, Narrative***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the construction of world-view and cognition in oral cultures by focusing on the language forms, perceptions, and social values/control contained in oral stories, histories, and communication. Analysis of the dynamics of communication and thought brought about by the written word through the move to script.

*Prerequisite(s): Two courses (6.0 credit hours) at the 3000 level in Humanities or Social Sciences AND Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Native American Studies 3850 (Orality, Literacy, and Narrative) (prior to 2020/2021); Native American Studies 4850 (Orality, Literacy, and Narrative) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities*

**INDIGENOUS STUDIES 4700****The Metis***Credit hours: 3.00**Contact hours per week: 3-0-0*

History, socio-cultural aspects and contemporary issues of the Métis.

*Prerequisite(s): Indigenous Studies 2500 AND Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Native American Studies 4700 (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

**INDIGENOUS STUDIES 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research and/or fieldwork oriented course in which students will conduct research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the project. In consultation with their Thesis Supervisor, students will define a research and/or fieldwork project and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.30 or higher*

*Equivalent: Native American Studies 4995 (prior to 2019/2020)*

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Interdisciplinary Studies****(IDST)****Faculty of Arts and Science****INTERDISCIPLINARY STUDIES 0520****Bridging Cultures: Two-Eyed Seeing***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides students with tools to critically examine and bridge differences and similarities between Indigenous ways of knowing and Western ways of knowing. The class is based on interactive class discussion, class presentations, video and guest speakers.

*Prerequisite(s): Admission to the Indigenous Student Success Cohort*

*Lib Ed Req: Fine Arts and Humanities*

**INTERDISCIPLINARY STUDIES 2008****Japanese Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

The Japanese world view; history, culture and society of Japan; Japan and the Western world.

*Lib Ed Req: Social Science*

**INTERDISCIPLINARY STUDIES 2600****Study Tour of Japan***Credit hours: 3.00**Other hours per term: 18-0-220*

This course features an excursion to Japan which is associated with Hokkai-Gakuen University in Sapporo, Hokkaido. The course includes 18 hours of lectures and language training at the University of Lethbridge prior to departure. In Japan, the daily program includes lectures, language training, numerous social and cultural events, and field visits to sites of natural and cultural significance. Enriching opportunities to meet other students from varied international backgrounds and the home-stay immersion experience of living with a Japanese family are significant components of the exchange and the course.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours) AND Application AND Interview*

*Recommended Background: Japanese 1000*

*Lib Ed Req: Social Science*

**INTERDISCIPLINARY STUDIES 2601****Study Tour of South Korea***Credit hours: 3.00**Other hours per term: 8-0-220*

This course features an excursion to Ulsan on the south-eastern coast of South Korea. The course includes a one day orientation at the University of Lethbridge prior to departure. In Ulsan, the daily program includes lectures and language training with numerous social and cultural events, and field visits to sites of natural and cultural significance. Enriching opportunities to meet other students from varied international backgrounds in a modern university residence complex, an overnight home-stay in the Ulsan area, and a four day excursion to Seoul are significant components of the exchange and the course.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours) AND Application AND Interview*

*Equivalent: Interdisciplinary Studies 2850 (Study Tour of South Korea) (prior to 2016/2017)*

*Grading: Pass/Fail*

*Lib Ed Req: Social Science*

**INTERDISCIPLINARY STUDIES 3200****Genetically Engineered Machines***Credit hours: 3.00**Other hours per term: 8-200-0*

Interdisciplinary approach combining the field of synthetic biology with other disciplines such as computational modelling, design, ethics, management (small business development), and new media. Case-driven learning environment; basic training in state-of-the-art molecular biology techniques; working with and constructing novel genetic building blocks (biobricks). The team will be organized on the lines of a technology start-up company: along with developing a genetically engineered machine, students will be involved in developing business/marketing plans and fundraising.

**Prerequisite(s):** Second-year standing (a minimum of 30.0 credit hours) AND

Application to the Department of Chemistry and Biochemistry AND

Successful interview

**Recommended Background:**

Biochemistry 2000

OR

One of Biology 30,

Chemistry 30,

Mathematics 30-I, Pure

Mathematics 30, or Science 30

and a strong interest in the course

**Lib Ed Req:** Science

**Note:** This course is only open to students selected for the University of Lethbridge sponsored team participating in the International Genetically Engineered Machines competition (iGEM) held annually (October) at the Massachusetts Institute of Technology (MIT). For further details contact the Department of Chemistry and Biochemistry. The course requires eight hours of orientation lectures and 200 hours in the laboratory. Student selection is based on the assumption that, upon completion of the course, students will participate in the iGEM competition.

**INTERDISCIPLINARY STUDIES 3300/****NEUROSCIENCE 3300****Introduction to Robotics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Hands-on course in which students acquire basic skills in building and programming robotics. Students will learn to design and build robots to accomplish tasks such as handling sensor signals, navigation and path planning, motor control, and basic cognitive robotics and machine learning.

**Prerequisite(s):** One of Computer Science 1620, Neuroscience 3690, or Physics 2900

**Equivalent:** Neuroscience 3850/ Interdisciplinary Studies 3850 (Introduction to Robotics) (prior to 2020/2021)

**Lib Ed Req:** Science

**International Management****(IMGT)****Dhillon School of Business****INTERNATIONAL MANAGEMENT 3170/POLITICAL SCIENCE 3170****The Politics of Canadian Trade Policy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Focus on the political economy of Canadian trade policy. Exploration of political, economic, and institutional factors shaping Canada's participation in international agreements on trade and related issues. Examination of the interaction of regional, economic, intergovernmental, and societal factors with trade policies in Canadian domestic politics. Students will also be exposed to theoretical literature related to international political economy, public policy, Canadian federalism, and Canadian foreign policy.

**Prerequisite(s):** Political Science 2110

**Equivalent:** Management 3670/Political Science 3170 (prior to 2021/2022)

**Lib Ed Req:** Social Science

**INTERNATIONAL MANAGEMENT 3225/ GEOGRAPHY 3225****Industrial Location and Globalization of Enterprise***Credit hours: 3.00**Contact hours per week: 3-0-0*

Industrial geography is concerned with the location of industrial activity at local, continental and global scales of analysis. The course explores locational patterns and behaviour of small, medium-sized and transnational manufacturing firms with special emphasis on locational dynamics over time. By taking a geographical perspective, the course links the spatial behaviour of firms with economic development issues at the local, regional and global scales.

**Prerequisite(s):** One of Human Resources and Labour Relations 2030 or Geography 2210

OR Admission to the Post-Diploma Bachelor of Management program

**Equivalent:** Management 3660/ Geography 3225 (prior to 2021/2022)

**Lib Ed Req:** Social Science

**INTERNATIONAL MANAGEMENT 3551/ GEOGRAPHY 3551****An Introduction to Tourism***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides an overview of tourism with an emphasis on socially and environmentally sustainable tourism. Topics covered include the nature and scope of tourism, public policy, tourism and economic development, tourism marketing, tourism impacts, aboriginal tourism and ecotourism.

**Prerequisite(s):** Third-year standing (a minimum of 60.0 credit hours)

**Equivalent:** Management 3551/ Geography 3551 (prior to 2021/2022)

**Lib Ed Req:** Social Science

## **INTERNATIONAL MANAGEMENT 3552**

### **Sustainable Tourism**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course builds on International Management 3551/Geography 3551 - An Introduction to Tourism. It explores new trends in the industry and looks at ways to make tourism sustainable in environmental, economic, social and cultural terms. The topic is contemplated from a national and global perspective. Other topics include the greening of the industry as a whole, cultural and ethnic tourism, ecotourism, community-based tourism and sustainable development.

*Prerequisite(s): 15 University-level courses (a minimum of 45.0 credit hours)*

*Recommended Background:*

*International  
Management 3551/  
Geography 3551*

*Equivalent: Management 3552 (prior to 2021/2022)*

## **INTERNATIONAL MANAGEMENT 3606**

### **Business in Emerging Markets**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Of the roughly 200 member states of the United Nations, the majority can be classified as emerging markets in the sense that they are low-income and/or rapid economic-growth countries, in which business opportunities are as challenging as they are enticing. This course examines managerial challenges of engaging emerging market opportunities, relying on research, real-life case studies, and current events. Each emerging market is characterized by its own set of political, economic, cultural, and technological characteristics.

Addressing emerging market opportunities thus requires innovative approaches to both management practices and business models. This course challenges students to examine different forms of managerial mindsets, the conditions under which they are appropriate, and the preferred shift towards a truly global approach to business.

*Prerequisite(s): International*

*Management 3650*

*Equivalent: Management 3606 (Managing Innovation & Emerging Markets) (prior to 2021/2022); Management 3815 (prior to 2017/2018)*

## **INTERNATIONAL MANAGEMENT 3640**

### **Cross-Cultural Management Practices**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An overview of comparative organizational behaviour, cross-cultural management practices, and an examination of how culture is expressed within the work environment here and abroad.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Management 3640 (prior to 2021/2022)*

*Lib Ed Req: Social Science*

## **INTERNATIONAL MANAGEMENT 3650**

### **Introduction to International Management**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introduction to the field of International Management where issues such as cross-cultural management and international aspects of trade, marketing and economic regimes are examined. An exploration and application of comparative management perspectives focusing on the visions and endeavours of entrepreneurs, corporations and nations over time in the global context.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Management 3650 (prior to 2021/2022)*

*Lib Ed Req: Social Science*

## **INTERNATIONAL MANAGEMENT 3665**

### **Leading in the Globalized Environment**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The challenges facing leaders of global organizations differ from the traditional challenges of leadership in a variety of ways. Such leaders face unprecedented strategic, economic, political and cultural complexity, diversity, ambiguity, uncertainty, and risk. They also face an unprecedented pace of economic and technological changes. This course introduces students to the emerging field of global leadership. Students will gain an understanding of the history and origins of global leadership and the theoretical approaches to global leadership in complex, modern contexts. They will be challenged to access primary sources of global leadership literature and think critically about the current state of theoretical development in global leadership. As well, they will explore various global leadership competencies and learn how to apply these competencies in the globalized environment.

*Prerequisite(s): International*

*Management 3640 AND  
Third-year standing (a  
minimum of 60.0 credit hours)*

*Equivalent: Management 3665 (prior to 2021/2022)*

## **INTERNATIONAL MANAGEMENT 3680**

### **Introduction to Canadian Culture and Management**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introduction to the multidisciplinary study of cultural structures and expressions in Canada. An examination of Canadian culture and society employing a variety of methods and perspectives, with the goal of providing an in-depth understanding of Canadian society and culture and its effects on Canadian business and management perspectives.

*Equivalent: Management 3680 (prior to 2021/2022)*

**Note:** This course is restricted to International and incoming Exchange students. Registration is by School approval only.

**INTERNATIONAL  
MANAGEMENT 3685****Issues in International Management  
(Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Issues in International Management (Series) offers students the opportunity to take a number of unique course offerings particular to the International

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Management 3685 (prior to 2021/2022)

**INTERNATIONAL  
MANAGEMENT 3815****Regional Aspects of International  
Management (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Regional Aspects of International Management (Series) offers students the opportunity to take a number of unique regional and/or country-specific course offerings particular to the Global Management area. These courses are intensive studies of specific regional or country-specific interest and provide students an opportunity to explore that particular subject in detail.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Management 3815 (prior to 2021/2022)

**INTERNATIONAL  
MANAGEMENT 3860****Law and Institutions of International  
Trade***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides an overview of the development and current condition of the global trading system, examining both its institutional and legal framework as well as how such challenges as nationalism, protectionism and globalization scepticism affect it. In examining this rules-based system, students will gain a better understanding of regional and international institutions and agreements, their complimentary goals and objectives, and their focus on maintaining a rational, predictable and interdependent global trading regime.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Management 3860 (prior to 2021/2022)

**INTERNATIONAL  
MANAGEMENT 4640****Cross-Cultural Work Study (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-117*

Examines the cultural issues involved in international management via participation in a six-week work study which consists of hands-on experience in applying business knowledge and skills in a culturally-challenging environment in an organization outside Canada. Classes will be conducted by both Canadian expatriates and local academics, and will cover topics such as trade relationships, marketing, cultural specifics and the economy of the region. Students will be involved in a variety of business-related projects, depending upon the particular needs of their assigned company.

*Prerequisite(s):* Successful application to the Cross-Cultural Work Study course AND

One of International Management 3640 or International Management 3650

*Equivalent:* Management 4640 (prior to 2021/2022)

**INTERNATIONAL  
MANAGEMENT 4650****Integrated Trade and Supply Chain  
Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

In a globalized world, an effective manager needs to understand the nature of international management and how cross-national similarities and differences impact their decisions. Thus, the purpose of this course is to integrate relevant global issues at the intersection of international management and cross-national realities. This course covers a narrow set of key international management topics (e.g. internationalization, cross-cultural leadership, working across borders, emerging markets strategies). Integrated global management of organizations requires the implementation of a global strategy to manage challenges—that is, the various combinations of organizational structure and people necessary to

*Prerequisite(s):* International Management 3640 AND International Management 3650

*Equivalent:* Management 4650 (prior to 2021/2022)

**Japanese****(JPNS)****Faculty of Arts and Science****JAPANESE 1000****Beginners' Japanese I***Credit hours: 3.00**Contact hours per week: 3-1-0*

Fundamentals of spoken and written Japanese. Use of the language laboratory.

*Lib Ed Req:* Fine Arts and Humanities

**Note:** For students with little or no knowledge of Japanese. All students must complete the Student Information Form and the placement test, if required. Results will determine placement in the appropriate course. Credit for Japanese 1000 will not normally be granted to students with Japanese 30, or equivalent. Students may be able to take this course for credit with permission of the Department of Modern Languages if high school Japanese courses were completed more than five years ago.

**JAPANESE 1100****Beginners' Japanese II***Credit hours: 3.00**Contact hours per week: 3-1-0*

Continuation of Japanese 1000.

*Prerequisite(s):* One of Japanese 1000 or Japanese 30

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Students with Japanese 30 must complete the Student Information Form and the placement test, if required. Results will determine placement in the appropriate course. Students who have fluent oral skills should contact the Department of Modern Languages for proper placement.

**JAPANESE 2010****Intermediate Language I***Credit hours: 3.00**Contact hours per week: 3-1-0*

Development of language skills; oral expression, listening comprehension, reading and writing. Use of the language laboratory.

*Prerequisite(s):* Japanese 1100

*Equivalent:* Japanese 1500 (prior to 2019/2020)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Students may be asked to complete a placement test. Students who have fluent oral skills should contact the Department of Modern Languages for proper placement.

**JAPANESE 2020****Intermediate Language II***Credit hours: 3.00**Contact hours per week: 3-1-0*

Further development of language skills; oral expression, listening comprehension, reading and writing. Use of the language laboratory.

*Prerequisite(s): Japanese 2010**Equivalent: Japanese 2000 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities*

**Note:** Students may be asked to complete a Placement test. Students who have fluent oral skills should contact the Department of Modern Languages for proper placement.

**JAPANESE 3001****Advanced Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

Further training in the skills of speaking, reading, writing and listening comprehension.

*Prerequisite(s): Japanese 2020**Lib Ed Req: Fine Arts and Humanities*

**Note:** Students may be asked to complete a placement test. Students who have fluent oral skills should contact the Department of Modern Languages for proper placement.

**Japanese Studies****(JPST)****Faculty of Arts and Science****JAPANESE STUDIES 3400/ASIAN STUDIES 3400****Japanese Society and Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of Japanese society and culture from pre-modern to present day encompassing a range of different theoretical perspectives from history, education, religion, food, language, holidays, pop culture, family, modernization, and subcultures.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)**Equivalent: Modern Languages 2850 (Japanese Society and Culture) (prior to 2016/2017)**Lib Ed Req: Fine Arts and Humanities***Kinesiology****(KNES)****Faculty of Arts and Science****KINESIOLOGY 1000****Wellness and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-2-0*

Physical, social and psychological aspects of personal wellness emphasizing involvement in physical activity.

*Lib Ed Req: Social Science***KINESIOLOGY 1160****Human Anatomy and Physiology I***Credit hours: 3.00**Contact hours per week: 3-1-0*

A study of the human body from investigation of anatomical systems, physiological functioning, and biomechanical processes of movement.

*Prerequisite(s): Biology 30**Substantially Similar:*

Health Sciences 1060;  
Therapeutic Recreation 1160  
(prior to 2019/2020)

*Lib Ed Req: Science*

**Note:** Students completing a major in Kinesiology or a disciplinary stream in Kinesiology for a General Major in the Sciences may not count this course for credit towards their major.

**KINESIOLOGY 1161****Human Anatomy and Physiology II***Credit hours: 3.00**Contact hours per week: 3-1-0*

A continuation of Kinesiology 1160, covering advanced concepts in human anatomy and physiology.

*Prerequisite(s): Kinesiology 1160**Lib Ed Req: Science*

**Note:** Students completing a major in Kinesiology or a disciplinary stream in Kinesiology for a General Major in the Sciences may not count this course for credit towards their major.

**KINESIOLOGY 2110****Biophysical Perspectives***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course uses a multidisciplinary approach to examine the capacities of human movement by means of knowledge contained within and between exercise physiology, motor control, and biomechanics.

*Lib Ed Req: Science***KINESIOLOGY 2130****Humanities Perspectives***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of historical, philosophical and literary perspectives of physical activity involvement.

*Lib Ed Req: Fine Arts and Humanities***KINESIOLOGY 2140****Psychological Perspectives***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of psychological perspectives of physical activity involvement related to groups and individuals.

*Lib Ed Req: Social Science***KINESIOLOGY 2150****Sociological Perspectives***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to sociological thinking about sport and physical activity. Explores the relation of sport and physical activity to the social and cultural contexts in which we live. Includes an introductory examination of the ways in which class, race, gender, sexuality and ability shape (and are shaped by) sport and physical activity.

*Lib Ed Req: Social Science***KINESIOLOGY 2160****Management Perspectives***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to management concepts for sport, physical education, physical activity, fitness and recreation programs. Event management principles are reinforced through practical learning experiences.

*Lib Ed Req: Social Science*

**Note:** Students in the Human Resource Management and Labour Relations (HRLR) major cannot count this course for credit towards their degree(s). Students majoring in HRLR will be blocked from registering in this course.

**KINESIOLOGY 2200****Research Methodologies***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of qualitative and quantitative research methods used in the study of sport and physical activity involvement.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)**Lib Ed Req: Science*

**KINESIOLOGY 2600****Functional Human Anatomy***Credit hours: 3.00**Contact hours per week: 3-2-0*

A functionally-oriented approach to human anatomy with specific emphasis on the musculoskeletal system.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Recommended Background:*

One of Kinesiology 2110 or Biology 1010

*Lib Ed Req:* Science

**KINESIOLOGY 2610****Human Physiology***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the function of the human body. Various systems will be examined with emphasis on the maintenance of homeostasis and the integration of functions to meet changing demands.

*Prerequisite(s):* Biology 1010

*Lib Ed Req:* Science

**KINESIOLOGY 2650****Functional Biomechanics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Use of functional anatomical models, current research and technology from kinesiology to explore fundamentals of biomechanics in a qualitative fashion.

*Lib Ed Req:* Science

**KINESIOLOGY 3100****Social Constructions of the Body***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the sociology and cultural studies of the body. Introduction to representations of the body in film and literature. Cultural metaphors of the body and illness. The body as labour and commodity in late capitalism. Body politics in relation to race, ethnicity, gender, sexuality and ability. Body modification and consumerism.

*Prerequisite(s):* One of Kinesiology 2150, Sociology 1000, or Sociology 0520

*Lib Ed Req:* Social Science

**KINESIOLOGY 3120****The Modern Olympic Movement***Credit hours: 3.00**Contact hours per week: 3-0-0*

Critical examination of historical, sociological and current issues related to the Modern Olympic Movement and the place of the Olympics in Canadian and global culture.

*Prerequisite(s):* Kinesiology 2150

*Lib Ed Req:* Social Science

**KINESIOLOGY 3200****Movement Disorders***Credit hours: 3.00**Contact hours per week: 3-0-0*

Overview of the major types of movement disorders (MD). Particular emphasis on the neural correlates of MD and on the functional deficits associated with the pathology.

*Prerequisite(s):* Neuroscience 2620

*Lib Ed Req:* Science

**KINESIOLOGY 3300****Leadership Skills Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is designed with innovative and contemporary approaches to stimulating thinking and creativity about the development of individual leadership styles and behaviours. A combination of classroom and field experiences will enhance core concepts in effective leadership, group dynamics and fair play.

*Prerequisite(s):* One 2000-level course (3.0 credit hours) in Kinesiology

*Lib Ed Req:* Social Science

**KINESIOLOGY 3350****Recognition and Care of Athletic Injuries***Credit hours: 3.00**Contact hours per week: 3-3-0*

An introduction to the mechanics of injury and the care and rehabilitation of athletic injuries. Course content will include recognition and effective management of acute and chronic injury, and various support and splinting techniques.

*Prerequisite(s):* Kinesiology 2600

*Recommended Background:*

Kinesiology 2610

*Lib Ed Req:* Science

**KINESIOLOGY 3400****History of Sport and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

From ancient times to the present with emphasis on the North American setting.

*Prerequisite(s):* One of Kinesiology 2130, History 1000, or History 1200

*Lib Ed Req:* Fine Arts and Humanities

**KINESIOLOGY 3430****Literature and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected examples of poetry, short stories, and works of fiction and non-fiction that engage physical activity and sport. An examination of central issues concerned with the role and significance of human physical activities, including sport and games, in ancient and more recent societies and cultures.

*Prerequisite(s):* One of Kinesiology 2130 or Third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Kinesiology 3850 (Literature and Physical Activity) (prior to 2018/2019)

*Lib Ed Req:* Fine Arts and Humanities

**KINESIOLOGY 3500****Nutrition and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the fundamentals of nutrition for healthful living and optimal performance; nutritional requirements of persons who are physically active or competitive athletes; body composition and weight management.

*Prerequisite(s):* Kinesiology 2610

*Lib Ed Req:* Science

**KINESIOLOGY 3610****Exercise Physiology***Credit hours: 3.00**Contact hours per week: 3-1.5-0*

Examination of how the human body responds to physical stress. Physiological and metabolic responses to acute exercise stimuli as well as adaptations to long-term training.

*Prerequisite(s):* Kinesiology 2610

*Recommended Background:*

Kinesiology 2600

*Lib Ed Req:* Science

**KINESIOLOGY 3630****Growth, Development and Aging***Credit hours: 3.00**Contact hours per week: 3-0-0*

Basis for exercise derived from study of individual physical, social and psychological growth patterns and the physical and environmental factors affecting human development stages.

*Prerequisite(s): Kinesiology 2200**Lib Ed Req: Science***KINESIOLOGY 3645****Media and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of the intersections of sport, mass media and popular culture in a globalized contemporary context.

*Prerequisite(s): One of Kinesiology 2150, Sociology 1000, or Sociology 0520*

*Lib Ed Req: Social Science***KINESIOLOGY 3650****Biomechanics***Credit hours: 3.00**Contact hours per week: 3-1.5-0*

Complex movements, specialized skills and motor coordination in terms of mechanics of skeletal and muscular movements.

*Prerequisite(s): Kinesiology 2600 AND Kinesiology 2650*

*Lib Ed Req: Science***KINESIOLOGY 3680****Sport Psychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Emphasis upon performance differences and performance manipulation as they can be traced to psychological constraints such as anxiety, imagery and mental rehearsal, motivation and feedback.

*Prerequisite(s): Kinesiology 2200 AND Kinesiology 2140 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science***KINESIOLOGY 3690****Motor Control***Credit hours: 3.00**Contact hours per week: 3-2-0*

An examination of the neural processes involved in the control and regulation of movement and posture. Specific topics include an overview of human neuroanatomy, theories of motor control, spinal mechanisms underlying movement, control of voluntary movement, posture and balance, movement disorders.

*Prerequisite(s): Kinesiology 2200 AND Kinesiology 2600*

*Recommended Background: Neuroscience 2610*

*Lib Ed Req: Science***KINESIOLOGY 3740****Philosophy of Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

A critical examination of basic philosophic questions relevant to physical education, sport and recreation with special consideration for ethical issues.

*Prerequisite(s): Kinesiology 2130*

*Recommended Background: Philosophy 1000*

*Lib Ed Req: Fine Arts and Humanities***KINESIOLOGY 3780****Exercise Psychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

An overview of the interaction of psychological factors and acute and chronic exercise participation. Exercise and the individual participant, the environment and physical activity, theoretical models of exercise involvement, and the promotion of regular exercise participation.

*Prerequisite(s): Kinesiology 2200 AND Kinesiology 2140 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science***KINESIOLOGY 4200****Health and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Critical examination of the role of physical activity in primary prevention of chronic disease and health promotion.

*Prerequisite(s): Two 3000-level courses (6.0 credit hours) in Kinesiology*

*Recommended Background: Kinesiology 2200 AND Kinesiology 3610*

*Lib Ed Req: Science***KINESIOLOGY 4300****Work and Physical Ergonomics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Physical ergonomics is the evidence-based examination of anthropometric, biomechanical, and physiological factors related to safe and unsafe worker loading and workplace design. This course will examine anatomical and mechanical bases of common work-related musculoskeletal disorders and explore techniques for identifying, assessing, and preventing soft tissue injuries at work.

*Prerequisite(s): Kinesiology 3650**Lib Ed Req: Science***KINESIOLOGY 4400****Canadian Sport History***Credit hours: 3.00**Contact hours per week: 3-0-0*

The social historical examination of sport and physical activity in Canada from pre-Colonial times to the present. The place of physical recreation in Canadian society is examined from the linked perspectives of gender, class, race and ethnicity.

*Prerequisite(s): Kinesiology 3400*

*Recommended Background: History 2710 AND History 2720*

*Lib Ed Req: Fine Arts and Humanities***KINESIOLOGY 4500****Aging and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of physical activity involvement of middle-aged and older adults. The course investigates both personal and societal factors that influence the adoption, adherence and/or cessation of a physically healthy lifestyle.

*Prerequisite(s): Two 3000-level courses (6.0 credit hours) in Kinesiology*

*Recommended Background: Kinesiology 3630*

*Lib Ed Req: Social Science***KINESIOLOGY 4550****Advanced Biomechanics***Credit hours: 3.00**Contact hours per week: 3-3-0*

Methods of multi-linked segment analysis used in quantitative human performance studies. Theories and applied examples related to two- and three-dimensional biomechanical modelling, technologies for motion capture, plus programming, testing, and trouble-shooting model output and biosignal integration.

*Prerequisite(s): Kinesiology 3650**Lib Ed Req: Science*



**KINESIOLOGY 4610****Fitness and Lifestyle Assessment***Credit hours: 3.00**Contact hours per week: 3-3-0*

Practical lab-based course that covers a wide range of exercise science laboratory methods, as well as theoretical information required to interpret test data. Foundation knowledge for professional certification through Canadian Society for Exercise Physiology.

*Prerequisite(s): Kinesiology 3610**Recommended Background:**Kinesiology 3780**Lib Ed Req: Science***KINESIOLOGY 4615****Advanced Exercise Physiology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Detailed understanding of the physiological processes that regulate human exercise tolerance. Emphasis on neuromuscular fatigue mechanisms, electrophysiology, and skeletal muscle metabolism. Adaptations to hypoxic conditions.

*Prerequisite(s): Kinesiology 2200 AND**Kinesiology 3610**Recommended Background:**Kinesiology 2600**Lib Ed Req: Science***KINESIOLOGY 4640****Applied Ethics in Sport and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of important ethical issues in the professional practice of physical activity, physical education and/or sport; sensitivity towards professional ethical duties; development of critical analytical skills for making ethical decisions.

*Prerequisite(s): One of Kinesiology 2130 or**Philosophy 1000 AND**Two 3000-level courses (6.0 credit hours) in Kinesiology, Anthropology, or Sociology**Recommended Background:**Kinesiology 2200 AND**Kinesiology 3740**Lib Ed Req: Fine Arts and Humanities***KINESIOLOGY 4660****Bioinstrumentation***Credit hours: 3.00**Contact hours per week: 3-3-0*

Principles and methods for biological signal detection and processing for human motion and activity analyses. Hands-on experience with state-of-the-art bioinstrumentation and data analysis methods.

*Prerequisite(s): Kinesiology 3650**Lib Ed Req: Science***KINESIOLOGY 4680****Advanced Exercise and Sport Psychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced topics in exercise and sport psychology. Strong emphasis will be placed on student's abilities to relate research findings to practical applications within the field.

*Prerequisite(s): One of Kinesiology 3680 or**Kinesiology 3780 AND**Fourth-year standing (a minimum of 90.0 credit hours)**Lib Ed Req: Social Science***KINESIOLOGY 4720****Gender and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of gender with a focus on how sport and physical activity reproduce, shape, and challenge constructions of femininity and masculinity. A socio-historical perspective on the relationship of sport to the cultural construction and interpretation of gender in Canadian society, and how gender operates as a central factor in the way that sport is played, organized and funded.

*Consideration of the issues of, and**intersections between, equity, race, ethnicity, sexualities and social class.**Prerequisite(s): Kinesiology 2150 AND**Third-year standing (a**minimum of 60.0 credit hours)**Recommended Background:**One of Anthropology 2600,**Sociology 2410, or Women and**Gender Studies 1000**Lib Ed Req: Social Science***KINESIOLOGY 4725****Race, Ethnicity, and Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

The racial politics of sport and physical activity in popular culture. Key concepts in post-Colonialism, black liberation discourse, and critical multiculturalism, all of which are applied to the context of sport and physical activity in North America.

*Prerequisite(s): Two 3000-level courses (6.0**credit hours) in Kinesiology AND**Third-year standing (a minimum of 60.0 credit hours)**Recommended Background:**Kinesiology 2150 AND**One course (3.0 credit hours) in Anthropology or Sociology, preferably Anthropology 2510 or Sociology 1000**Lib Ed Req: Social Science***KINESIOLOGY 4900****Interdisciplinary Research Dialogues***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminar-based 'capstone' course. Research questions and conventions from across the disciplines (Humanities, Science, and Social Science) in Kinesiology. Emphasis is on creating productive research dialogues within and between students, faculty and diverse disciplinary approaches to the field.

*Prerequisite(s): Kinesiology 2200 AND**Third-year standing (a minimum of 60.0 credit hours)**Lib Ed Req: Science or Social Science*

**KINESIOLOGY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND  
A cumulative GPA of 3.30 or higher AND  
Kinesiology 2200 AND  
One of Kinesiology 3990 or Kinesiology 4990 AND  
Application to the Department of Kinesiology and Physical Education

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Latin (LATI)**  
**Faculty of Arts and Science**

**LATIN 1000****Elementary Latin I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Latin grammar with exercises in translating simple sentences and texts from Latin into English.

*Lib Ed Req:* Fine Arts and Humanities

**LATIN 1100****Elementary Latin II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Completion of survey of Latin grammar, translation of elementary Latin texts selected from Caesar, Cicero and other basic authors.

*Prerequisite(s):* Latin 1000

*Lib Ed Req:* Fine Arts and Humanities

**Liberal Education (LBED)**  
**School of Liberal Education**

**LIBERAL EDUCATION 1000****Knowledge and Liberal Education***Credit hours: 3.00**Contact hours per week: 2-1-1*

Introductory, multidisciplinary, and critical examination of knowledge, the foundation of a liberal education; broad integration of examples from Sciences, Social Sciences, Humanities, and Fine Arts. Discussion groups and labs teach basic skills (critical thinking, numeracy, oral and written communications, and research).

**Note:** Students who complete both Liberal Education 1000 and either Liberal Education 2000 or Library Science 2000, or all of Liberal Education 1000, 1150 and 2150, may reduce the Liberal Education List Requirement by one course from each of the three lists. Liberal Education 1000 alone does not fulfill any list requirement.

**LIBERAL EDUCATION 1150****Multidisciplinary Perspectives on Global Citizenship I***Credit hours: 1.50**Contact hours per week: 1.5-0-0*

The first of two 1.5-credit courses offering a multidisciplinary examination of topics relating to the current cohort theme. Students will relate topics from their other courses to the theme and to Global Citizenship through a variety of activities.

*Prerequisite(s):* Admission to the Global Citizenship Cohort

*Grading:* Pass/Fail

**Note:** Students who complete all of Liberal Education 1000, 1150 and 2150 may reduce the Liberal Education List Requirement by one course from each of the three lists. Liberal Education 1150 alone does not fulfill any list requirement.

**LIBERAL EDUCATION 1500****The First-Year Experience: Mapping Our Communities***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the University as a physical, social, and academic space, and to membership in new academic communities. Includes introduction to the many resources available for student support on campus, the liberal education philosophy of the University of Lethbridge, a study of how a variety of academic disciplines map out their knowledge, and career and study skills.

*Lib Ed Req:* Social Science

**Note:** This course is intended for first-year students (having completed fewer than 30.0 credit hours).

**LIBERAL EDUCATION 2000****Identity and Liberal Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

Broad exploration of individual and group identities, key concepts in a liberal education; multidisciplinary and integrative perspective; examples from the Sciences, Social Sciences, Humanities, and Fine Arts. Discussion groups and labs teach higher level critical thinking, communication, and research skills.

*Prerequisite(s):* One of Liberal Education 1000 or four courses (12.0 credit hours) in Arts and Science

**Note:** Students who complete both Liberal Education 1000 and Liberal Education 2000 may reduce the Liberal Education List Requirement by one course from each of the three lists. Liberal Education 2000 alone does not fulfill any list requirement.

**LIBERAL EDUCATION 2100****Quantitative Reasoning***Credit hours: 3.00**Contact hours per week: 3-0-0*

Number systems: historical development and current systems, types of numbers, operations on numbers and their properties, scientific notation, estimation; relationships between numbers: graphs and functions, rates of change, modelling; quantitative data: graphical and numerical description, inference production and evaluation. Applications and examples selected from a range of disciplines. Intended for students with little or no mathematics background.

*Lib Ed Req:* Science

### **LIBERAL EDUCATION 2150** **Multidisciplinary Perspectives on** **Global Citizenship II**

*Credit hours: 1.50*

*Contact hours per week: 1.5-0-0*

The second of two 1.5-credit courses offering a multidisciplinary examination of topics relating to the current cohort theme. Students will relate topics from their other courses to the theme and to Global Citizenship through a variety of activities.

*Prerequisite(s): Liberal Education 1150*

*Grading: Pass/Fail*

**Note:** Students who complete all of Liberal Education 1000, 1150 and 2150 may reduce the Liberal Education List Requirement by one course from each of the three lists. Liberal Education 2150 alone does not fulfill any list requirement.

### **LIBERAL EDUCATION 2200** **Problems and Puzzles**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Problems and puzzles across a wide range of disciplines, including word problems, logic puzzles, mathematical problems, and famous problems and puzzles in history. Strategies and techniques for solving problems, including Pólya's method of problem-solving and metacognitive theories.

*Lib Ed Req: Science*

### **LIBERAL EDUCATION 2300/** **NEUROSCIENCE 2300**

#### **Core Brain Story**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Lifelong health is determined by many factors including genes, experiences, and social environment. Experiences at sensitive periods of development change the brain in ways that increase or decrease risk for later physical and mental illness, including addiction. This course is based on the Core Story of Brain Development offered by the Alberta Family Wellness Initiative (AFWI) and includes significant Indigenous content presented by Indigenous scholars. It is designed for students from any discipline seeking a deeper understanding of early brain development and its consequences for lifelong health, executive function development, and recovery from trauma, and includes Indigenous perspectives on life-long health and recovery from trauma.

*Equivalent: Neuroscience 1850/Liberal Education 1850 (The Core Story of Brain Development) (prior to 2022/2023); Neuroscience 2850/Liberal Education 2850 (The Core Story of Brain Development) (prior to 2022/2023)*

*Lib Ed Req: Science*

### **LIBERAL EDUCATION 2400** **Great Literature and Thought Across** **Disciplines: A Brief History**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Interdisciplinary integrative introduction to great literature and thought in Western civilization from the ancient Greeks to the 1700s.

*Lib Ed Req: Fine Arts and Humanities*

### **LIBERAL EDUCATION 2500** **Scientific Knowledge Across** **Disciplines**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

What is science? What are the methods for obtaining good scientific knowledge, and how can different scientific approaches be explained across a wide variety of natural sciences? This course gives a historical overview of the quest to define and develop science.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Liberal Education 2850 (Scientific Knowledge Across Disciplines) (prior to 2019/2020)*

*Lib Ed Req: Science*

### **LIBERAL EDUCATION 3000/** **WRITING 3000** **Writing in the Modern Research** **University**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Exploration of the pivotal role writing plays in the modern research university in the construction of the social roles and identities of academics and of academic knowledge itself; the idea of 'disciplinarity'; the different disciplines in the modern research university; and the different ways these disciplines view research, value types of knowledge, understand the role of the researcher in knowledge-making, and work with the challenges of translating that knowledge for non-expert use. Special attention will also be paid to academic writing as a tool used to exclude or marginalize certain knowledges, and the role of writing in Indigenous the university and in making the university a more ethical, inclusive research space.

*Prerequisite(s): Writing 1000 AND Liberal Education 1000*

*Lib Ed Req: Fine Arts and Humanities*

### **LIBERAL EDUCATION 3010** **Liberal Education (Series)**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Critical examination of significant contemporary themes; multidisciplinary and integrative perspective; broad integration of Sciences, Social Sciences, Humanities, and Fine Arts. Content varies from year to year. Offerings may include, for example, Genocide, Progress, or Friendship and Family.

*Prerequisite(s): One of Liberal Education 1000, Liberal Education 2000, or eight courses (24.0 credit hours) in Arts and Science*

**Note:** Students who complete both Liberal Education 3010 and Liberal Education 4000 may reduce the Liberal Education List Requirement by one course from each of the three lists. Liberal Education 3010 alone does not fulfill any list requirement.

**LIBERAL EDUCATION 3100****History of Mathematics***Credit hours: 3.00**Contact hours per week: 3-0-0*

A study of the major developments in mathematics from prehistory to the seventeenth century, especially the development of geometry and algebra over the centuries. Development of numbers and counting systems; early Egyptian, Babylonian, Greek, and Roman mathematics; the Arabic empire; expansion in the Middle Ages; the solution of the quartic; the invention of calculus.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Science*

**LIBERAL EDUCATION 3300****Creativity and Innovation***Credit hours: 3.00**Contact hours per week: 3-0-0*

An interdisciplinary study of current research into creative thinking and innovation in a Liberal Education context, as well as practice in a variety of specific skills and tools that can enhance creative thought.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Liberal Education 3850 (Creativity Across Disciplines) (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

**LIBERAL EDUCATION 3350****Themes in Innovation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Themes in Innovation focuses on skills like creativity, critical thinking, and innovation for dealing with complex problems, with creativity, philosophy and history of technology, and social change at the core. Introduction to foundational ideas that contribute to the innovation culture, and the principles of problem-solving, designing and building solutions, and supporting community growth through collaboration. Students are able to move an idea from inception to proposal; successful projects may continue being developed once the course is completed, through Agility funding.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Liberal Education 3850 (Themes in Innovation) (prior to 2019/2020); FA 3850 (Themes in Innovation) (prior to 2018/2019)*

*Lib Ed Req: Social Science*

**LIBERAL EDUCATION 3400****Great Literature and Thought Across Disciplines: The Long Conversation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Interdisciplinary integrative introduction to great literature and thought in Western civilization from the 1700s to modern times.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**LIBERAL EDUCATION 3500****Natural versus Human Sciences***Credit hours: 3.00**Contact hours per week: 3-0-0*

An inquiry into the differences between the natural and human sciences, including historical development of the sciences since the Scientific Revolution in the 16th and 17th centuries and the growth of the human/social sciences in the 19th and 20th centuries. This course will survey the complex and numerous similarities and differences that exist between the natural and human sciences across a wide range of disciplines, including the underlying debate over what human nature is.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Liberal Education 3850 (Natural vs Human Sciences) (prior to 2019/2020)*

*Lib Ed Req: Fine Arts and Humanities*

**LIBERAL EDUCATION 3600/****ARCHAEOLOGY 3600****Human Evolution***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theories and major developments in the study of human evolution. Examination of hominid fossils and stone tools in order to understand human biological and cultural development. Contributions made by various disciplines to this research area are reviewed.

*Prerequisite(s): One of Archaeology 1000, a previous course (3.0 credit hours) in Archaeology, or Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Science*

**LIBERAL EDUCATION 3700****Charles Darwin's On the Origin of Species (1859)***Credit hours: 3.00**Contact hours per week: 3-0-0*

A presentation and analysis of the ideas of Charles Darwin's classic 1859 book *On the Origin of Species*, which promotes the theory of evolution by natural selection, including major scientific and philosophical components. The book will be placed in the historical context of the time, and the question of its current relevancy raised. A study of the importance of Darwinism across multiple disciplines.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Liberal Education 3850 (Charles Darwin on the Origin of Species) (prior to 2019/2020)*

*Lib Ed Req: Science*

**LIBERAL EDUCATION 4000****Capstone Ideas in Liberal Education***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminar; critical examination and discussion of selected readings; synthetic integration across the disciplines in Sciences, Social Sciences, Humanities, and Fine Arts. Content varies from year to year.

*Prerequisite(s): Two Liberal Education courses (6.0 credit hours)*

**OR**

*Third-year standing (a minimum of 60.0 credit hours)*

**Note:** Students who complete both Liberal Education 3010 and Liberal Education 4000 may reduce the Liberal Education List Requirement by one course from each of the three lists. Liberal Education 4000 alone does not fulfill any list requirement.

**LIBERAL EDUCATION 4500****Critical Approaches to Knowledge***Credit hours: 3.00**Contact hours per week: 3-0-0*

In recent decades, our view of science keeps changing as seen in three main successive yet overlapping intellectual movements of positivism, post-positivism, and postmodernism. This had led to the realizations that knowledge-building is a complex business and that an ever more critical view of science could lead to its very negation. The merits and limitations of each of these three main intellectual movements will be exposed, analyzed, and debated, with examples from a broad range of scientific disciplines.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Equivalent:* Liberal Education 4850 (Critical Approaches to Knowledge) (prior to 2019/2020)

*Lib Ed Req:* Science

**Library Science****(LBSC)****Faculty of Arts and Science****LIBRARY SCIENCE 0520****Information Literacy***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is designed to teach Library research skills and a companion set of study skills and computer skills that together will help students adjust to the university environment and enhance their opportunity for academic success. Students will learn how information is organized, how to search for and retrieve information using both print and online resources, and how to evaluate and use information. In formulating and conducting research strategies, students will also have the opportunity to develop skills in time management, goal setting, note taking and critical thinking, all of which are essential for success in any academic program.

*Prerequisite(s):* Admission to the Indigenous Student Success Cohort

*Equivalent:* Library Science 0500 (prior to 2016/2017)

**LIBRARY SCIENCE 2000****Library Research and Information Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

The conceptual framework and basic skills necessary to identify, locate and use a variety of information sources in various disciplines and types of libraries. Emphasis upon new developments and trends in information provision, including online catalogues, online databases, electronic journals and end-user searching.

**Note:** Students who complete both Liberal Education 1000 and Library Science 2000 may reduce the Liberal Education List Requirement by one course from each of the three lists. Library Science 2000 alone does not fulfill any list requirement.

**Linguistics****(LING)****Faculty of Arts and Science****LINGUISTICS 1100/INDIGENOUS STUDIES 1100****Language and Culture in Indigenous America***Credit hours: 3.00**Contact hours per week: 3-0-0*

Overview of language and culture in Indigenous communities, with an emphasis on North America. Topics may include: language structure, language in cultural and social domains, language and writing, language contact, and language and time. No prior knowledge is required.

*Equivalent:* First Nations' Transition 1850 (Introduction to North American Indigenous Languages) (prior to 2020/2021); Native American Studies 1850 (Introduction to North American Indigenous Languages) (prior to 2020/2021); Indigenous Studies 1850/Linguistics 1850 (Introduction to North American Indigenous Languages) (prior to 2020/2021)

*Lib Ed Req:* Fine Arts and Humanities

**LINGUISTICS 2300****Introduction to Linguistics I: Phonetics and Phonology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the study of language, part one. Production and perception of speech sounds (phonetics) and sound systems (phonology) in English and other languages. Basic principles of sound change (historical phonology).

*Lib Ed Req:* Fine Arts and Humanities

**LINGUISTICS 2600****Introduction to Linguistics II: Morphology, Syntax and Semantics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the study of language, part two. Internal structure of words and word formation processes (morphology). Basic sentence and phrase structure (syntax). Analysis of word and sentence meaning (semantics).

*Prerequisite(s):* Linguistics 2300

*Lib Ed Req:* Fine Arts and Humanities

**LINGUISTICS 2750/INDIGENOUS STUDIES 2750****Endangered Languages***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the issues of language endangerment and language shift, and the methods and techniques that can help ensure the vitality of endangered languages.

*Prerequisite(s):* One course (3.0 credit hours) in Linguistics

*Equivalent:* Native American Studies 2850/Linguistics 2850 (Sustainable Language Revitalization) (prior to 2020/2021); Native American Studies 3850 (Indigenous Language Endangerment and Revitalization) (prior to 2020/2021)

*Lib Ed Req:* Fine Arts and Humanities

## LINGUISTICS 3240/ PSYCHOLOGY 3240

### Psychology of Language

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The study of how language is processed in the mind. Topics include language production and comprehension, language acquisition, bilingualism, and language disorders. Special emphasis will be placed on the developmental aspects of psycholinguistics.

*Prerequisite(s):* Psychology 2110 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Recommended Background:* One of Psychology 2330, Psychology 2800, Linguistics 2300, or Linguistics 2600

*Lib Ed Req:* Social Science

## LINGUISTICS 3405/ PSYCHOLOGY 3405

### First Language Acquisition

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to first language acquisition. Topics include: research methods; phonological, morphological, syntactic, lexical and communicative development; language acquisition in special circumstances (deafness, blindness, mental retardation, autism); bilingual language acquisition.

*Prerequisite(s):* Linguistics 2300 AND Linguistics 2600

*Recommended Background:* A 2000-level course in Psychology

*Equivalent:* Linguistics 3400 (prior to 2016/2017)

*Lib Ed Req:* Social Science

## LINGUISTICS 3600

### Practical Phonetics

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A practical course in phonetics with an emphasis on transcription and pronunciation of the entire International Phonetic Alphabet. Topics include: the functions of the speech organs; speech production and articulation; analysis of speech sounds, stress and intonation; suprasegmental phenomena. Use of the language laboratory.

*Prerequisite(s):* Linguistics 2300

*Lib Ed Req:* Fine Arts and Humanities

## LINGUISTICS 3700

### Sociolinguistics

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to the social significance of linguistic variation, including the relation between language and social class, social mobility, social networks, age, sex and gender.

*Prerequisite(s):* Linguistics 2300 AND Linguistics 2600

*Lib Ed Req:* Fine Arts and Humanities

## LINGUISTICS 4000

### Seminars in Linguistics (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Senior seminars involving original research on or in-depth study of topics in linguistics, or the advanced study of an individual language or language family. Offerings vary depending upon student interest and available faculty.

*Prerequisite(s):* Linguistics 2300 AND Linguistics 2600 (Additional prerequisites may be specified, including any recommended background, for individual offerings)

## Logic (LOGI)

### Faculty of Arts and Science

## LOGIC 1000

### Critical Thinking

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Logic is the general examination of arguments and the distinction between good arguments and merely good-looking arguments. Techniques, both formal and informal, are presented for evaluation of reasoning in all walks of life - in ordinary conversation, in political debates and in science. The study of logic fosters the ability to think critically and carefully in all fields of endeavour.

*Lib Ed Req:* Science

## LOGIC 2003

### Symbolic Logic I

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introductory course in formal techniques of argument analysis. Students will learn how to formalize arguments of English in Sentential Logic - which has important links to Boolean Algebra and Computation Theory - and apply semantic and syntactic techniques for evaluating such arguments. In addition, students will be exposed in a preliminary way to Predicate Logic.

*Lib Ed Req:* Science

## LOGIC 2500

### Studies in Logic (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The Logic 2500 series makes available to students special courses that are not offered regularly. Some of these courses reflect the research interests of members of the faculty, and thus offer students an early glimpse of how research is done. In other cases, the course could be a response to student interest.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Science

## LOGIC 3003

### Symbolic Logic II

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A second course in formal techniques of argument analysis. Students will learn how to formalize arguments of English in Predicate Logic and apply semantic and syntactic techniques for evaluating such arguments. In addition, students will be introduced to soundness and completeness proofs for both Sentential and Predicate Logic.

*Prerequisite(s):* Logic 2003

*Lib Ed Req:* Science

## LOGIC 3500

### Intermediate Studies in Logic (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The Logic 3500 series has the same function as the Logic 2500 series but at levels of study appropriate to more senior students.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Science

**LOGIC 4500****Advanced Studies in Logic (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

The Logic 4500 series has the same function as the Logic 2500 and Logic 3500 series but at levels of study appropriate to senior philosophy or mathematics students with a strong background in logic.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Science*

**LOGIC 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course. This research will be presented in a report in the form of an Undergraduate Thesis which will be made publicly available and which will be the subject of an oral defence.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND*

*A cumulative GPA of 3.30 or higher AND*

*A cumulative GPA of 3.50 or higher on all Logic and Philosophy courses*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Management****(MGT)****Dhillon School of Business****MANAGEMENT 1000****Introduction to Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

This introductory course explores the critical role managers play within all types of organizations (i.e. business, government, and not-for-profits). Structured around the four management functions of planning, organizing, leading, and controlling, students will be exposed to a broad range of topics such as organizational strategy; environments and cultures; decision-making, how functional areas are integrated in organizational structures; managing individuals; groups and teams; and managerial controls. A foundational course for management students, the material is useful to all students as they prepare for future workplace roles.

*Mutually Exclusive:*

*Management 1500*

*Lib Ed Req: Social Science*

**Note:** *Students in Dhillon School of Business programs are unable to register in this course. Dhillon School of Business students should register in Management 1500.*

**MANAGEMENT 1500****Fundamentals of Business***Credit hours: 3.00**Contact hours per week: 3-0-0*

In this course students will learn about the nature of businesses and how they are influenced by the political, social and economic environment. Forms of business ownership are discussed, as well as the different ways organizations are designed and structured to achieve their objectives. Key functional areas of business are introduced, including accounting and financial systems, human resources management, marketing, technology, operations and supply chain management. Students will also have their first exposure to experiential learning activities, where they will learn to think critically and solve business problems in an ethical and sustainable way.

*Mutually Exclusive:*

*Management 1000*

*Equivalent: Management 1850 (Management Systems and Connections) (prior to 2018/2019); Management 1850 (Fundamentals of Business) (prior to 2021/2022)*

**MANAGEMENT 2070/  
ECONOMICS 2070****Operations and Quantitative Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Management of production and service operations, including capacity planning, process and layout design, and TQM; applications of quantitative techniques like linear programming, forecasting, inventory models, waiting line models, CPM/PERT, simulations and decision theory are discussed within the operations environment.

*Prerequisite(s): One of Statistics 1770 or [Health Sciences 3450/ Psychology 3450 and admission to the B.HSc./B.Mgt. Combined Degrees program] AND Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Science*

**MANAGEMENT 2081****Professional Communications Skills***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is focused on developing skill in three important areas of communication in professional or business settings: written communication skills, presentation skills and interpersonal communications. Written communication skills include learning to write concisely for the intended audience, how to develop a position and use rationale/evidence to support that position. Presentation skills will help students become more confident in public speaking and using effective ways to present information and complex data/ideas. Interpersonal skills may include developing self awareness, listening skills, providing constructive feedback and how to manage difficult conversations. Since this course is intended to build skills in these areas, there is a strong emphasis on practice. To be successful, students will be required to participate fully in the skill-building exercises.

*Equivalent: Management 3080 (prior to 2021/2022)*

**MANAGEMENT 2700****Business Research Methods***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to quantitative and qualitative designs in management research as well as frequently-used applied statistics. Special attention to ethical concerns in research, measurement issues such as reliability and validity, and the critical assessment of research tools such as questionnaires.

*Corequisite(s): Human Resources and Labour Relations 2030*

**MANAGEMENT 3002****Co-op Work Experience I***Credit hours: 0.00*

Co-operative Education program first work term requires the Co-op student to file a written report to be graded by an assigned faculty member.

*Prerequisite(s): Successful application to the Co-operative Education program*

*Grading: Pass/Fail*

**MANAGEMENT 3003****Co-op Work Experience II***Credit hours: 0.00*

Co-operative Education program second work term requires the Co-op student to file a written report to be graded by an assigned faculty member.

*Prerequisite(s): Management 3002*

*Grading: Pass/Fail*

**MANAGEMENT 3004****Co-op Work Experience III***Credit hours: 0.00*

Co-operative Education program third work term requires the Co-op student to file a written report to be graded by an assigned faculty member.

*Prerequisite(s): Management 3003*

*Grading: Pass/Fail*

**MANAGEMENT 3005****Co-op Work Experience IV***Credit hours: 0.00*

Co-operative Education program fourth work term requires the Co-op student to file a written report to be graded by an assigned faculty member.

*Prerequisite(s): Management 3004*

*Grading: Pass/Fail*

**MANAGEMENT 3008****Co-op Work Experience V***Credit hours: 0.00*

Co-operative Education program fifth work term requires the Co-op student to file a written report to be graded by an assigned faculty member.

*Prerequisite(s): Management 3005*

*Grading: Pass/Fail*

**MANAGEMENT 3009****Co-op Work Experience VI***Credit hours: 0.00*

Co-operative Education program sixth work term requires the Co-op student to file a written report to be graded by an assigned faculty member.

*Prerequisite(s): Management 3008*

*Grading: Pass/Fail*

**MANAGEMENT 3010****Business Law***Credit hours: 3.00**Contact hours per week: 3-0-0*

Legal dimensions of business and administrative practice with special emphasis on the law of contracts.

**MANAGEMENT 3031****Managing Responsibly in a Global Environment***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the forces shaping management decision-making in an organizational environment characterized by the process of globalization. The interaction of the political, legal, regulatory and social environments in which an organization operates will be assessed in relation to ethical decision-making, stakeholder management, sustainability and corporate citizenship.

*Prerequisite(s): One of Writing 1000, English 1900, final grade of 80% or higher in AB high school English Language Arts 30-1, or successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))*

*OR*

*admission to the Bachelor of Management as a Second-Degree program*

*Recommended Background:*

*One of Economics 1010 or Economics 1012*

*Lib Ed Req: Social Science*

**MANAGEMENT 3062****Information Systems and Data Analytics***Credit hours: 3.00**Contact hours per week: 3-0-0*

A clear understanding of, and breadth of knowledge regarding, both the theoretical principles and concepts of Information Systems (IS), and the ability to apply these concepts and frameworks to today's managerial challenges. An understanding of the role of IS in managing organizations, and in helping organizations achieve greater effectiveness. Examination and application of data analytics and visualization in regard to customer, operations, and people analytics. Conceptual models and practical applications of IS in organizations are featured. An introduction to business processes and how Information Technology (IT) enables businesses to function more effectively.

*Mutually Exclusive:*

*Accounting 3171*

*Equivalent: Management 3061 (prior to 2021/2022)*

**MANAGEMENT 3070****Supply Chain Management and Sustainability***Credit hours: 3.00**Contact hours per week: 3-0-0*

Explores the design and management of supply chains to ensure the right materials arrive at the right place at the right time at minimal cost and in the right quantity and quality. Concepts such as network planning; risk pooling; supply contracts; distribution, procurement and outsourcing strategies; integration and coordination; and information technology in business processes. Special focus on purchasing including sourcing, RFP process and supplier selection. Software packages will be used to illustrate many of the concepts. The sustainability of supply chain networks, in terms of environmental, risk, and waste costs, is also discussed.

*Prerequisite(s): Management 2070/ Economics 2070*

*Lib Ed Req: Social Science*



**MANAGEMENT 3075****Operations Modelling with Spreadsheets***Credit hours: 3.00**Contact hours per week: 3-0-0*

Problem analysis and solution using MS Excel is an essential skill in modern business. This course covers the analysis and solving business problems in accounting, finance, human resources, marketing, and operations by introducing how to use five tools of problem modeling, decision analysis, linear programming, simulation, and waiting lines in MS Excel.

*Prerequisite(s):* Management 2070/  
Economics 2070

**MANAGEMENT 3093****Integrated Management Experience***Credit hours: 0.00**Other hours per term: 33-15-0*

Critical business issues are solved through the application of management knowledge. Key ideas from the areas of marketing, project management, organizational theory, and legal/social issues are integrated with an applied, real-time project for a local not-for-profit organization. Students develop an integrative approach to management and the ability to communicate, utilize creative skills and adopt behavioural flexibility.

*Prerequisite(s):* Successful application to the Integrated Management Experience (IME) course AND completion of 15 courses (45 credit hours)

*Corequisite(s):* One of Writing 1000, English 1900, final grade of 80% or higher in AB high school English Language Arts 30-1, or successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs)) AND Management 3920

*Recommended Background:*

Management 1000 or  
Management 1500 AND  
Marketing 2020

*Substantially Similar:*

Management 3091 (prior to 2021/2022)

**Note:** Integrated Management Experience (IME) is a two-part course (MGT 3093 and MGT 3094) that must be taken in sequence, in consecutive fall to spring terms, in order to receive full credit. In the fall term, students will be registered in MGT 3093, with 0.0 credit hours and 1.5 billing hours, and will be given an 'X' grade at the end of that term. In the following spring term, students will be registered in MGT 3094, with 3.0 credit hours and 1.5 billing hours. At the end of the second term, students will be given a final letter grade for MGT 3094. Students must apply for approval to be registered in MGT 3093. Acceptance is based on academic background and grades. Students who are accepted into MGT 3093 in the fall term and will also be automatically registered in MGT 3920 in the same term (cannot have completed MGT 3920 in a term before or after registration in MGT 3093). Apply online at [www.ulethbridge.ca/dhillon/student-experience/integrated-management-experience](http://www.ulethbridge.ca/dhillon/student-experience/integrated-management-experience). Students will automatically be registered in MGT 3094 in the spring term immediately after their successful completion of MGT 3093.

**MANAGEMENT 3094****Integrated Management Experience***Credit hours: 3.00**Other hours per term: 33-15-0*

Critical business issues are solved through the application of management knowledge. Key ideas from the areas of marketing, project management, organizational theory, and legal/social issues are integrated with an applied, real-time project for a local not-for-profit organization. Students develop an integrative approach to management and the ability to communicate, utilize creative skills and adopt behavioural flexibility.

*Prerequisite(s):* Management 3093

*Recommended Background:*

Management 1000 or  
Management 1500 AND  
Marketing 2020

*Substantially Similar:*

Management 3092 (prior to 2021/2022)

**Note:** Integrated Management Experience (IME) is a two-part course (MGT 3093 and MGT 3094) that must be taken in sequence, in consecutive fall to spring terms, in order to receive full credit. In the fall term, students will be registered in MGT 3093, with 0.0 credit hours and 1.5 billing hours, and will be given an 'X' grade at the end of that term. In the following spring term, students will be registered in MGT 3094, with 3.0 credit hours and 1.5 billing hours. At the end of the second term, students will be given a final letter grade for MGT 3094. Students must apply for approval to be registered in MGT 3093. Acceptance is based on academic background and grades. Students who are accepted into MGT 3093 in the fall term and will also be automatically registered in MGT 3920 in the same term (cannot have completed MGT 3920 in a term before or after registration in MGT 3093). Apply online at [www.ulethbridge.ca/dhillon/student-experience/integrated-management-experience](http://www.ulethbridge.ca/dhillon/student-experience/integrated-management-experience). Students will automatically be registered in MGT 3094 in the spring term immediately after their successful completion of MGT 3093.

**MANAGEMENT 3360****Organization Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

An integral part of effective management involves understanding and critically examining the goals, strategies, structure, technology and external environment of organizations. In addition, a manager also needs to be cognizant of the various processes that occur within organizations, such as conflict, politics, change, information-flow and control, and organizational culture. Such an understanding of the structural design and functioning of organizations is essential to improving and maintaining them. This course provides this understanding by introducing current theories as well as alternative perspectives and approaches to the management and design of organizations, and assessing their relevance and usefulness.

*Prerequisite(s): One of Human Resources and Labour Relations 2030 or admission to the Post-Diploma Bachelor of Management program*

**MANAGEMENT 3612****Innovation and Entrepreneurship***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course explores the historical and economic roles of innovation and entrepreneurship in the Canadian economy. Included in this exploration will be the important role that innovation and entrepreneurship in agricultural enterprise management play in the growth and prosperity of the prairie economy. Students will be exposed to theory and practice in the context of both independent and corporate entities. The theoretical foundations of both innovation and of entrepreneurship are investigated through discussions of classic and contemporary literature. Application and current practice will be explored through case studies, interviews and class visits from local entrepreneurs in the retail and services sectors, and producers, distributors, and consumers in the agribusiness sector.

**MANAGEMENT 3622****Visual Analytics***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides students, regardless of their technical background, with an introduction to the analysis and visualization of data to enhance data-informed decision making in management. The intent is to increase understanding of visualization best practices, explore and analyze data, create effective and compelling interactive dashboards, and tell persuasive stories using data visualizations.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Management 3850 (Visual Analytics) (prior to 2018/2019)*

**MANAGEMENT 3710****Managing Not-for-Profit Organizations***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-9*

A focus on the major management issues that not-for-profit organizations confront in their pursuit to be effective and caring organizations. Topics include, but are not limited to, the recruitment and management of volunteers, the role of boards in the governance of not-for-profit organizations, and the methods employed to raise funds to sustain and grow these organizations.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**MANAGEMENT 3775****Quality Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Management of operational activities and functions involved in the determination of quality policy and its implementation through means such as quality planning, control, and quality assurance. The use of several techniques and quality management tools will be described. Predicting the errors in the measuring process, distinguishing their nature and the root causes, justifying whether or not a measuring process fulfils the established quality requirements, understanding and calculating the correction and uncertainty parameters as a result of an instrument calibration, as well as introducing the regulation and the phases of a quality system certification process will be part of this course.

*Prerequisite(s): Management 2070/ Economics 2070*

**MANAGEMENT 3780/****ECONOMICS 3780****Principles of Industrial Organization***Credit hours: 3.00**Contact hours per week: 3-0-0*

The development of economic principles applied to the behaviour of individual firms and the collection of firms at the industry level. Topics include measures of market power, cost concepts and output decisions, various types of price discrimination and their effects on firm profits and consumer welfare, pricing strategies, providing product optimal varieties and quality, product bundling and tie-in sales. An introduction to game theory, and strategic pricing and output behaviour.

*Prerequisite(s): Economics 1010*

*Equivalent: Management 3780/ Economics 3080 (prior to 2021/2022)*

*Lib Ed Req: Social Science*

**MANAGEMENT 3801****New Venture Start-Ups***Credit hours: 3.00**Contact hours per week: 3-0-0*

With a dynamically changing environment filled with uncertainty, opportunity exists to design or re-design small businesses. This course examines innovative models of value creation for students who are planning to be entrepreneurs or professional advisors to the small-business sector. Students will learn the theoretical concepts and application of start-ups, as well as how to manage and reduce the uncertainties that can impact a start-up. Entrepreneurs and recent research in this field of study will help students understand the opportunity in the 21st century for social entrepreneurship, social networking, business creation, and new theories in entrepreneurship.

*Recommended Background:*

*15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: Management 2850 (New Venture Start-Ups) (prior to 2018/2019); Management 2800 (prior to 2020/2021)*

**MANAGEMENT 3816****Venture Growth***Credit hours: 3.00**Contact hours per week: 3-0-0*

Growing a business is a dynamic process as leadership learns how to navigate the ebbs and flows of growth. This course examines the increasing complexity of growing a small business. Through case studies, interactive dialogue, and professional advisors, students will examine current issues and trending approaches to mastering personnel development, increasing IT and organizational structures to handle communication and decision complexities that come with growth in small business, as well as building an effective marketing function separate from traditional sales.

*Recommended Background:*

*15 university-level courses (a minimum of 45.0 credit hours)*

**MANAGEMENT 3825/HEALTH SCIENCES 3825****Information in Health Care***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to how information is created, utilized and disseminated within the health care realm. Content areas include information systems theory, examination of existing health systems, and the Lethbridge and Canadian Health care context.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Management 3825/Health Sciences 3500 (prior to 2021/2022)*

**MANAGEMENT 3826****Building Sustainable Family Enterprises***Credit hours: 3.00**Contact hours per week: 3-0-0*

Family businesses play a key role in the Canadian landscape, with a significant percentage being family firms. Family businesses have unique opportunities and challenges that include: managing conflict, succession planning, family power, intergenerational dynamics, and strategic long-term planning. This course will look at family enterprise systems, governance, behavioural/psychological characteristics, theoretical approaches, and analytical models. Case studies, group work, community family-business leaders and professionals will provide learning scenarios and theoretical frameworks as preparation for students who plan to provide professional services or become family-business leaders in the future.

*Recommended Background:*

*15 university-level courses (a minimum of 45.0 credit hours)*

**MANAGEMENT 3901****Professional Consulting***Credit hours: 3.00**Contact hours per week: 3-0-0*

Students will gain an understanding of the field of management consulting through an examination of the management consulting process, issue and problem diagnosis, management consulting approaches and styles, client-consultant relationships, management of change and professional codes of conduct and ethics.

*Prerequisite(s): Human Resources and Labour Relations 2030 AND Human Resources and Labour Relations 3050*

**MANAGEMENT 3920****Project Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Covers the entire project lifecycle from the conceptualization to termination phases with an emphasis on the project planning and controlling functions. Various topics such as international project management, TQM and ethical issues are also covered.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)*

**MANAGEMENT 3980****Applied Studies/Field Experience I***Credit hours: 3.00*

An opportunity to earn credit for an employment or volunteer experience with a significant learning component. Completion of a written report is required, which includes consultation of relevant literature and relation of theoretical precepts to practical experience.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND*

*Admission to the Dhillon School of Business AND*

*Permission of the Applied Studies Field Coordinator AND Approval of the Dhillon School of Business*

**MANAGEMENT 3981****Applied Studies/Field Experience II***Credit hours: 3.00*

An opportunity to earn credit for an employment or volunteer experience with a significant learning component. Completion of a written report is required, which includes consultation of relevant literature and relation of theoretical precepts to practical experience.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND*

*Admission to the Dhillon School of Business AND*

*Permission of the Applied Studies Field Coordinator AND Approval of the Dhillon School of Business*

**MANAGEMENT 4074****Supply Chain Technology and Blockchain***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course expands on understanding essential concepts of supply chain technology and how it can solve business problems. Students will learn the basics of developing technological applications throughout the supply chain while learning about how they can be used to improve operational efficiency. Students will get a detailed picture of the components and structures of technological networks within a supply chain framework. Several emerging technologies such as Blockchain, Artificial Intelligence (AI) and Internet of Things (IoT) is acknowledged. Case studies will be used to illustrate many of the concepts.

*Prerequisite(s):* Management 3070 AND Management 3075

*Equivalent:* Management 4075 (prior to 2021/2022)

**MANAGEMENT 4090****Management Policy and Strategy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Integrative requirements and consequences of policy and strategy alternatives. Simulated management decision-making through case studies in both the private and public sector.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND Management 3031 OR Admission to the Post-Bachelor Certificate in Advanced Accounting OR Admission to the Combined Post-Bachelor Certificates in Accounting

*Recommended Background:*

One of Marketing 2020 or Marketing 3250 AND Human Resources and Labour Relations 2030 AND Management 3031 AND Finance 3040 AND Human Resources and Labour Relations 3050 AND One of Management 3062 or Management 3622 or Accounting 3171

**MANAGEMENT 4580****Environmental Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course constitutes an in-depth exploration of domestic and international topics in environmental management, including public participation and human rights issues, and the role of aboriginal/indigenous peoples.

*Prerequisite(s):* One of Indigenous Governance and Business Management 3280/Indigenous Studies 3280 or Third-year standing (a minimum of 60.0 credit hours)

**MANAGEMENT 4775****Seminars on Supply Chain and Operations Management Issues (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

From time to time advanced seminars courses may be offered to take advantage of the industrial or research experience of faculty members or visiting instructors, where a similar course is not available on this topic area elsewhere at the University. Topics will be announced for the session they are offered. Topics of seminars may include applications of Supply Chain and Operations Management in Agricultural Operations, Data Analytics, Energy Management, Enterprise Resource Planning, Forestry Management, Healthcare Operations Management, Logistics Management, Procurement Management, Service Operations, Sustainability Development, Transportation Management, etc.

*Prerequisite(s):* Management 3070 AND Management 3075

**MANAGEMENT 4806****Venture Diagnostics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Small-business owners bring a unique set of talents to their businesses, but may not have the necessary framework or skills for identifying growth opportunities, buying or investing in other ventures, setting up a new venture, or attracting outside investors. This course applies management theories and practical diagnostic tools to case studies, and in discussions and seminars with professional advisors.

*Prerequisite(s):* Finance 3406

**MANAGEMENT 4895****Honours Component I***Credit hours: 0.00*

The first honours component for the Management Undergraduate Thesis option is a non-credit course attached to an honours-approved Dhillon School of Business course at the 3000 or 4000 level, where the student will be given additional academic/research work, to be graded by an assigned faculty member.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) AND Approval of the Dhillon School of Business

*Grading:* Pass/Fail

**Note:** Contact hours vary; students should be aware that this course involves regular contact with a faculty supervisor. Students who fail to complete Honours Component I may not register for a second time in the course.

**MANAGEMENT 4896****Honours Component II***Credit hours: 0.00*

The second honours component for the Management Undergraduate Thesis option is a non-credit course attached to an honours-approved Dhillon School of Business course at the 3000 or 4000 level in the student's major, where the student will be given additional academic/research work, to be graded by an assigned faculty member.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) AND Approval of the Dhillon School of Business

*Grading:* Pass/Fail

**Note:** Contact hours vary; students should be aware that this course involves regular contact with a faculty supervisor. Students who fail to complete Honours Component II may not register for a second time in the course.

**MANAGEMENT 4901****Applied Consulting***Credit hours: 3.00**Contact hours per week: 0-0-1**Other hours per term: 0-0-1/7*

Client-student interaction will focus on specific and actual consulting process assignments with external clients.

*Prerequisite(s):* Management 3901 AND One of Management 2700 or Marketing 3220 AND Successful application to the Applied Consulting course

**Note:** For more information visit [www.ulethbridge.ca/dhillon/applied-consulting](http://www.ulethbridge.ca/dhillon/applied-consulting)

**MANAGEMENT 4980****Applied Studies/Field Experience I***Credit hours: 3.00*

An opportunity to earn credit for an employment or volunteer experience with a significant learning component. Completion of a written report is required, which includes consultation of relevant literature and relation of theoretical precepts to practical experience.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

Admission to the Dhillon School of Business AND  
Permission of the Applied Studies Field Coordinator and approval of the Dhillon School of Business

**MANAGEMENT 4981****Applied Studies/Field Experience II***Credit hours: 3.00*

An opportunity to earn credit for an employment or volunteer experience with a significant learning component. Completion of a written report is required, which includes consultation of relevant literature and relation of theoretical precepts to practical experience.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

Admission to the Dhillon School of Business AND  
Permission of the Applied Studies Field Coordinator and approval of the Dhillon School of Business

**MANAGEMENT 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct empirical research in their major area after consultation with their Thesis Supervisor, submit a publically available report in the form of an Undergraduate Thesis and report orally on the work. The research methods of the Thesis must conform to the norms of social science.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

A GPA of 3.30 or higher on the last 10 University of Lethbridge courses (30.0 credit hours) AND

Two honours-approved Dhillon School of Business courses at the 3000 or 4000 level AND Approval of the Dhillon School of Business AND  
Management 4895 AND  
Management 4896 AND  
One of Management 3002, Management 3093 and Management 3094, a full-term international exchange, or [any two of the following:  
Management 3980,  
Management 3990,  
Management 4640,  
Management 4980, or  
Management 4990]

**Note:** Students would benefit from taking a research methods course, for example, Economics 3950 or Management 2700. Contact hours vary but students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work. Students interested in a full-term international exchange should see the International Programs website ([www.ulethbridge.ca/international/go-exchange](http://www.ulethbridge.ca/international/go-exchange)).

**Marketing****(MKTG)****Dhillon School of Business****MARKETING 2020****Marketing***Credit hours: 3.00**Contact hours per week: 3-0-0*

The marketing function of organization; decision areas in the external environment; marketing strategies, research, consumer behaviour, product classification and development, distribution, promotion and pricing.

*Recommended Background:*

Economics 1010 AND

Economics 1012

*Equivalent:* Management 2020 (prior to 2021/2022)

**MARKETING 3205****Sports Marketing***Credit hours: 3.00**Contact hours per week: 3-0-0*

To remain competitive in the entertainment industry, organizations are looking for ways to develop and sustain competitive advantages. The sports industry, included in the entertainment industry, is no different. Due to limited consumer resources (time and money), sports organizations need to develop strategies that entice consumers to attend their events on a regular basis. This course will discuss concepts that relate to developing a Marketing Mix Strategy to differentiate organizations from competitors in the marketplace using tactics that create sustainable competitive advantages.

*Prerequisite(s):* 15 University-level course (a minimum of 45.0 credit hours)

*Equivalent:* Management 3205 (prior to 2021/2022);  
Management 3850 (Sports Marketing) (prior to 2016/2017)

**MARKETING 3210****Consumer Behaviour***Credit hours: 3.00**Contact hours per week: 3-0-0*

Consumer behaviour theories, examination of sociological and psychological influences of buyer behaviour, study of the consumer decision process,

*Prerequisite(s): Marketing 2020 AND*

*One of Writing 1000, English 1900, final grade of 80% or higher in AB high school English Language Arts 30-1, or successful completion of a writing challenge test (see information found at [www.ulethbridge.ca/dhillon/advising-faqs](http://www.ulethbridge.ca/dhillon/advising-faqs))*

*Equivalent: Management 3210 (prior to 2021/2022)*

**MARKETING 3215****Introduction to Marketing Communications and Social Media***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to advertising and public relations theory, social media, media structures, regulatory supervision and social responsibility.

*Prerequisite(s): Marketing 2020**Corequisite(s): Marketing 3210*

*Equivalent: Management 3215 (prior to 2021/2022)*

**MARKETING 3220****Marketing Research***Credit hours: 3.00**Contact hours per week: 3-0-0*

Research process as related to marketing. Defining the problem, research design, sample selection, instrument preparation, data collection and reduction, analysis, presentation and follow-up.

*Prerequisite(s): Marketing 2020 AND*

*One of Economics 2900 or Statistics 2780*

*Equivalent: Management 3220 (prior to 2021/2022)*

**MARKETING 3225****Brand Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Brand-related concepts, emphasizing the achievement of marketing objectives by developing and maintaining a strong brand. Brand management requires continuous improvement of the entity that is branded, coupled with an effective and appropriately funded communications program targeting relevant audiences. In addition to examinations, students will complete individual projects to demonstrate their understanding of branding principles and best practices.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Management 3225 (prior to 2021/2022)*

**MARKETING 3230****Retailing Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Role of retailing in marketing; structure of retailing in Canada; retail management of location, layout, buying inventory, personnel, promotion,

*Prerequisite(s): Marketing 2020*

*Equivalent: Management 3230 (prior to 2021/2022)*

**MARKETING 3240****Business-to-Business Relationship Sales***Credit hours: 3.00**Contact hours per week: 3-0-0*

Developing and maintaining mutually beneficial relationships in the business-to-business sales environment is key for long-term relationships. Principles of effective communication, negotiation, ethics, trust and presentation are applied to B2B environments such as agriculture, government and private industry.

*Prerequisite(s): Marketing 2020*

*Equivalent: Management 3240 (prior to 2021/2022)*

**MARKETING 3250****Social Marketing***Credit hours: 3.00**Contact hours per week: 3-0-0*

Marketing plays an increasingly important role in campaigns and programs that deal with such problems as HIV/AIDS, smoking, drug and alcohol abuse, and environmental pollution. Social marketing is the adaptation of commercial marketing technologies to programs designed to influence the voluntary behaviour of target audiences in order to improve their personal welfare and that of the society of which they are a part. Social marketing has been particularly successful in influencing health and social behaviours in fields such as HIV/AIDS prevention and childhood immunization, but it is also being used in areas such as criminal justice and environmental protection.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Management 3250 (prior to 2021/2022)*

*Lib Ed Req: Social Science*

**MARKETING 3260****Not-for-Profit Marketing***Credit hours: 3.00**Contact hours per week: 3-0-0*

Students will be presented with core concepts of the marketing function in nonprofit organizations. Learning these core concepts improves decision making and planning. Students will also be presented with special topics of importance, such as cause marketing, volunteer recruitment, fund raising and social marketing. Learning more about these special topics enhances students' currency of knowledge on emerging challenges for marketing managers of non-profit organizations.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Management 3260 (prior to 2021/2022)*

**MARKETING 3280****Services Marketing Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

The service sector makes up more than 70 percent of Canada's economy. Students will gain an appreciation of and insight into the service sector, and will learn how to apply key service marketing principles. Topics include: service products, consumers and markets; how the P's of marketing are applicable to services; designing and managing the customer interface related to service marketing; implementing a profitable service strategy through managing staff and customer relationships; and enhancing service quality and productivity.

*Prerequisite(s): One of Management 1000 or Management 1500 AND Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Management 3280 (prior to 2021/2022)*

**MARKETING 3290****Marketing and Society***Credit hours: 3.00**Contact hours per week: 3-0-0*

Explore the dynamic weave between the function of marketing and the society within which it is immersed. Examine the costs and benefits of marketing to society, and the macromarketing dynamics of a system that includes consumers, business and government. While critically analyzing imbalanced macromarketing systems and recommending solutions, students will also better understand their own values and beliefs, and benefit by applying their critical thinking to difficult societal issues.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Management 3290 (prior to 2021/2022)*

**MARKETING 3806****Small Business Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theoretical and practical knowledge to set up and manage a small business; characteristics and forms of small business; time management; organize-purchase franchise decisions; forecasting and marketing; obtaining financing; government and legal controls; tax considerations; accounting and financial controls; personnel administration; location decisions.

*Equivalent: Management 3806 (prior to 2021/2022)*

**MARKETING 3862****Digital Marketing***Credit hours: 3.00**Contact hours per week: 3-0-0*

A study of the ways in which business activities take place over networks; challenges that face managers in the digital organization; and focuses on the fit between technology and strategy in organizational settings.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Equivalent: Management 3862 (prior to 2021/2022)*

**MARKETING 4215****Advanced Marketing Communications and Social Media***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is a continuation of students' exploration of advertising and public relations theory, social media, media structures, regulations and social responsibility. The class will enrich students' understanding of these topics by developing advertising strategies and plans with case studies or competitions.

*Prerequisite(s): Marketing 3215*

*Equivalent: Management 4215 (prior to 2021/2022)*

**MARKETING 4220****Cross-Cultural Marketing***Credit hours: 3.00**Contact hours per week: 3-0-0*

International marketing and intelligence: economic, cultural, political, product policy, foreign market entry methods, international promotion and pricing.

*Prerequisite(s): Marketing 2020*

*Equivalent: Management 4220 (prior to 2021/2022)*

**MARKETING 4230****Marketing Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

Strategy-oriented, marketing environment, marketing information and analysis of markets and buying behaviour; program development.

*Prerequisite(s): Marketing 3210 AND Fourth-year standing (a minimum of 90.0 credit hours)*

*Corequisite(s): Marketing 3220*

*Equivalent: Management 4230 (prior to 2021/2022)*

**Mathematics****(MATH)****Faculty of Arts and Science****MATHEMATICS 0100****Preparation for Essential Mathematics***Credit hours: 0.00**Contact hours per week: 3-0-1*

Preparation for university-level mathematics. Review of fractions, exponents and percentages; equations, functions and applications for linear and quadratic polynomials; systems of equations and their applications; and right triangle and oblique triangle trigonometry.

*Prerequisite(s): Admission to the Indigenous Student Success Cohort AND One of Mathematics 20-1, or Mathematics 20-2*

*Grading: Pass/Fail*

**Note:** *Mathematics 0100 is a non-credit course designed for the Indigenous Student Success Cohort. The course is for students who lack the prerequisite mathematics background to complete Mathematics 0520 successfully or who have been out of school for some years and require upgrading in mathematics.*

**MATHEMATICS 0500****Essential Mathematics***Credit hours: 3.00**Contact hours per week: 3-0-1*

Polynomials and rational functions, trigonometry, exponential and logarithmic functions, inequalities, rudiments of probability and counting.

*Prerequisite(s): Mathematics 30-2 or Applied Mathematics 30*

*Equivalent: Mathematics 0520*

*Lib Ed Req: Science*

**Note:** *This course may not be taken for credit by students with Mathematics 30-1 or Pure Mathematics 30. This course may not be included among the mathematics courses required for Computer Science or Mathematics majors in Arts and Science.*

**MATHEMATICS 0520****Essential Mathematics***Credit hours: 3.00**Contact hours per week: 3-0-1*

Polynomials and rational functions, trigonometry, exponential and logarithmic functions, inequalities, rudiments of probability and counting.

*Prerequisite(s): Admission to the Indigenous Student Success Cohort AND One of Mathematics 0100, Mathematics 30-2, or Applied Mathematics 30*

*Equivalent: Mathematics 0500*

*Lib Ed Req: Science*

**Note:** This course may not be taken for credit by students with Mathematics 30-1 or Pure Mathematics 30. This course may not be included among the mathematics courses required for Computer Science or Mathematics majors in Arts and Science.

**MATHEMATICS 1010****Introduction to Calculus***Credit hours: 3.00**Contact hours per week: 3-0-1*

Review of algebra. Properties and graphs of polynomial, rational, exponential, logarithmic, and trigonometric functions. Algebra of functions, including composition and inverses. Elementary calculus, including limits, continuity, derivatives, and antiderivatives. Applications of derivatives to curve sketching.

*Prerequisite(s): One of Mathematics 30-1, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520*

*Substantially Similar:*

*Mathematics 1510*

*Lib Ed Req: Science*

**Note:** Credit is not allowed for Mathematics 1010 subsequent to the completion of Mathematics 1560.

**MATHEMATICS 1410****Elementary Linear Algebra***Credit hours: 3.00**Contact hours per week: 3-0-1*

Linear systems. Vectors and matrices. Determinants. Orthogonality and applications. Vector geometry. Eigenvalues, eigenvectors, and applications. Complex numbers.

*Prerequisite(s): One of Mathematics 30-1, Mathematics 30-2, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520*

*Lib Ed Req: Science*

**MATHEMATICS 1510****Calculus for Management and Social Sciences***Credit hours: 3.00**Contact hours per week: 3-0-1*

Differentiation of elementary functions, the chain and product rules, extrema problems, integration. Applications from management, humanities and the social sciences.

*Prerequisite(s): One of Mathematics 30-1, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520*

*Mutually Exclusive:*

*Mathematics 1560*

*Substantially Similar:*

*Mathematics 1010;*

*Mathematics 1560*

*Lib Ed Req: Science*

**Note:** Mathematics 1510 may not be counted toward the requirements for a major in Mathematics and is not suitable for students requiring more than one term of Calculus.

**MATHEMATICS 1560****Calculus I***Credit hours: 3.00**Contact hours per week: 3-0-1*

Functions. Limits. Continuity. Differentiation and integration of polynomial, rational, root, trigonometric, exponential, and logarithmic functions. Inverse functions, including inverse trigonometric functions. Applications of derivatives, including linear approximations and Taylor polynomials. Curve sketching, optimization, and related rates. Anti-derivatives. Definite integrals and Fundamental Theorem of Calculus. Change of variables.

*Prerequisite(s): One of Mathematics 30-1, Mathematics 0500, or Mathematics 0520*

*Mutually Exclusive:*

*Mathematics 1510;*

*Mathematics 1565*

*Substantially Similar:*

*Mathematics 1510;*

*Mathematics 1565*

*Lib Ed Req: Science*

**MATHEMATICS 1565****Accelerated Calculus I***Credit hours: 3.00**Contact hours per week: 3-0-1.5*

Elementary functions: polynomial, rational, root, trigonometric, exponential, logarithmic, hyperbolic. Inverse functions, including inverse trigonometric functions. Limits and continuity. Differentiation of elementary and inverse functions.

Applications of derivatives, including linear approximations, Taylor polynomials, and l'Hospital's rule. Curve sketching and optimization. Anti-derivatives. Definite integrals and the Fundamental Theorem of Calculus. Integration by substitution. Area between curves. Numerical integration.

*Prerequisite(s): One of Mathematics 1010 or Mathematics 31*

*Mutually Exclusive:*

*Mathematics 1560*

*Substantially Similar:*

*Mathematics 1560*

*Lib Ed Req: Science*

**MATHEMATICS 2000****Mathematical Concepts***Credit hours: 3.00**Contact hours per week: 3-0-1*

Logic, proofs. Set theory. Relations and functions. Finite and countable sets. Induction. Examples of axiomatic mathematical theories.

*Prerequisite(s): Four courses (12.0 credit hours) in Arts and Science AND One of Logic 2003, or a 1000-level course in Mathematics, Computer Science, Statistics, or Physics, or Mathematics 31, or a blended grade of at least 80 percent in either Mathematics 30-1 or Pure Mathematics 30*

*Lib Ed Req: Science*



**MATHEMATICS 2090****Number Systems***Credit hours: 3.00**Contact hours per week: 3-0-1*

Principles of Logic. Number Systems and Bases. Sets of real numbers: Integers, Rationals, Irrationals. Modular Arithmetic and applications. Divisibility, primes and elementary number theory.

*Prerequisite(s): Eight university-level courses (24.0 credit hours)*

*Lib Ed Req: Science*

**Note:** *Mathematics 2090 is primarily intended for prospective teachers who would not ordinarily take university mathematics courses. This course cannot be counted as a 2000 level mathematics course towards the major requirements for the B.Sc. (Mathematics), B.Sc./B.Ed (Mathematics/Mathematics Education), or B.Sc./B.Mgt. (Mathematics) programs. Credit is not allowed for Mathematics 2090 subsequent to the successful completion of Mathematics 2000.*

**MATHEMATICS 2560****Calculus II***Credit hours: 3.00**Contact hours per week: 3-0-1*

Review of inverse trigonometric functions. Techniques of integration; applications of integration; improper integrals/indeterminate forms and l'Hospital's rule; parametric curves in the plane; polar coordinates; introduction to differential equations.

*Prerequisite(s): One of Mathematics 1560 or Mathematics 1565*

*Mutually Exclusive:*

*Mathematics 2565*

*Substantially Similar:*

*Mathematics 2565*

*Lib Ed Req: Science*

**MATHEMATICS 2565****Accelerated Calculus II***Credit hours: 3.00**Contact hours per week: 3-0-1.5*

Techniques of integration. Improper integrals. Applications of integration, including volume, arc length, and surface area. Separable and linear first-order Ordinary Differential Equations. Sequences and series, power series. Parametric curves in the plane and space. Polar coordinates. Partial derivatives. Tangent planes to graphs of functions of two variables.

*Prerequisite(s): One of Mathematics 1565 or a minimum 'B' grade in Mathematics 1560*

*Mutually Exclusive:*

*Mathematics 2560*

*Substantially Similar:*

*Mathematics 2560*

*Lib Ed Req: Science*

**MATHEMATICS 2570****Calculus III***Credit hours: 3.00**Contact hours per week: 3-0-0*

Sequences and series, convergence tests, power series, and Taylor series. Calculus of vector-valued functions of a real variable; velocity, acceleration, arc length, curvature. Limits and continuity for real-valued functions of several variables. Partial derivatives and tangent planes to graphs of functions of two variables.

*Prerequisite(s): Mathematics 1410 AND One of Mathematics 2560 or Mathematics 2565*

*Lib Ed Req: Science*

**Note:** *Credit is not allowed for Mathematics 2570 subsequent to the completion of Mathematics 2575.*

**MATHEMATICS 2575****Accelerated Calculus III***Credit hours: 3.00**Contact hours per week: 3-0-1.5*

Calculus of Vector valued functions; Differential calculus of multivariable functions, with applications including optimization. Integral calculus of functions of multiple variables including changes of variables in multiple integrals and different coordinate systems. Calculus of Vector fields; including Greens Theorem, Stokes Theorem, and the Divergence Theorem.

*Prerequisite(s): Mathematics 1410 AND One of Mathematics 2565 or Mathematics 2570*

*Substantially Similar:*

*Mathematics 2580*

*Lib Ed Req: Science*

**MATHEMATICS 2580****Calculus IV***Credit hours: 3.00**Contact hours per week: 3-0-0*

Review of partial differentiation. Chain rule and implicit differentiation. Gradients and directional derivatives. Maxima, minima, and optimization. Double and triple integrals and applications. Changes of variables in multiple integrals, including polar, cylindrical, and spherical coordinates. Divergence and curl of a vector field. Line and surface integrals. Green's Theorem, Stokes' Theorem, and Divergence Theorem.

*Prerequisite(s): Mathematics 2570*

*Substantially Similar:*

*Mathematics 2575*

*Lib Ed Req: Science*

**MATHEMATICS 3100****Introduction to Mathematical Logic***Credit hours: 3.00**Contact hours per week: 3-0-0*

First Order Logic. Validity, provability, completeness, consistency, independence, categoricity, decidability, Gödel's Theorem.

*Prerequisite(s): Mathematics 2000*

*Lib Ed Req: Science*

**MATHEMATICS 3200****Geometry***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to classical geometry from the axiomatic point of view. Lines and affine planes. Separation, order, similarity, congruence. Isometries and their classification. Groups of symmetries. Projective, hyperbolic and inversive geometries.

*Prerequisite(s): Mathematics 2000*

*Lib Ed Req: Science*

**MATHEMATICS 3400****Group and Ring Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Groups, abelian groups, subgroups, quotient groups. Homomorphism. Isomorphism theorems. Lagrange's theorem. Permutation groups. Sylow theorems. Commutative rings, subrings, ideals. Quotient rings and ideals. Polynomial rings.

*Prerequisite(s): Mathematics 2000*

*Recommended Background:*

*At least one 3000-level course (3.0 credit hours) in Mathematics*

*Lib Ed Req: Science*

**MATHEMATICS 3410****Linear Algebra***Credit hours: 3.00**Contact hours per week: 3-0-0*

Vector spaces over the real and complex numbers. Basis and dimension. Linear transformations. Change of basis. Gram-Schmidt orthogonalization. Eigenvectors and diagonalization. Canonical forms. Cayley-Hamilton Theorem.

*Prerequisite(s): Mathematics 1410 AND Mathematics 2000*

*Lib Ed Req: Science*

**MATHEMATICS 346 I****Elementary Number Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Division algorithm. Fundamental Theorem of Arithmetic. Euclidean Algorithm. Linear Diophantine equations. Congruences. Chinese Remainder Theorem. Quadratic reciprocity. Additional topics such as Pythagorean triples, Gaussian integers, sums of squares, continued fractions, arithmetic functions, or cryptography.

*Prerequisite(s): Mathematics 2000**Lib Ed Req: Science***MATHEMATICS 3500****Analysis I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Rigorous treatment of the notions of calculus of a single variable, emphasizing epsilon-delta proofs. Completeness of the real numbers. Upper and lower limits. Continuity. Differentiability. Riemann integrability.

*Prerequisite(s): Mathematics 2000 AND One of Mathematics 2565 or Mathematics 2570*

*Recommended Background:*

*At least one 3000-level course (3.0 credit hours) in Mathematics*

*Lib Ed Req: Science***MATHEMATICS 3560****Functions of a Complex Variable***Credit hours: 3.00**Contact hours per week: 3-0-0*

Complex number system and complex plane. Analytic functions. Complex integration. Power series. Calculus of residues.

*Prerequisite(s): One of Mathematics 2575 or Mathematics 2580 AND One of Mathematics 2000 or Physics 2150*

*Lib Ed Req: Science***MATHEMATICS 3600****Differential Equations I***Credit hours: 3.00**Contact hours per week: 3-0-0*

First order ordinary differential equations. Second and higher order ordinary differential equations. Linear systems of ordinary differential equations. Qualitative theory of ordinary differential equations. Applications. Series solutions. Singular point expansions. Elementary linear difference equations.

*Prerequisite(s): Mathematics 1410*

*Corequisite(s): One of Mathematics 2565 or Mathematics 2570*

*Lib Ed Req: Science***MATHEMATICS 3650****Differential Equations II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Adjoins. Oscillation theory. Matrix methods. Matrix exponential functions. Sturm-Liouville theory. Orthonormal systems and Fourier series. Eigenfunction expansions. Laplace, Fourier and Mellin transforms. Convolutions. Convergence theory. Plancherel and Parseval formulae. Distributions. Solving PDEs using integral transforms. Fundamental solutions. Separation of variables. Heat, wave and Poisson equations. Harmonic functions.

*Prerequisite(s): Mathematics 3600*

*Corequisite(s): One of Mathematics 2575 or Mathematics 2580*

*Lib Ed Req: Science***MATHEMATICS 3860****Combinatorics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Graph theory. Combinatorial designs. Enumerative Combinatorics or other topics.

*Prerequisite(s): Mathematics 2000**Lib Ed Req: Science***MATHEMATICS 4310****Topology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Topological spaces. Topology of metric spaces. Continuity. Open covers and compactness. Separation. Connectedness.

*Prerequisite(s): Mathematics 3500**Lib Ed Req: Science***MATHEMATICS 4400****Field Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Polynomial rings. Fields and field extensions, construction problems. Finite fields. Galois Theory. Fundamental Theorem of Algebra.

*Prerequisite(s): Mathematics 3400**Lib Ed Req: Science***MATHEMATICS 4405****Algebra (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Topics in group and ring theory, modules, commutative and non-commutative algebras.

*Prerequisite(s): Mathematics 3400 AND Mathematics 3410*

*Lib Ed Req: Science***MATHEMATICS 4460****Advanced Number Theory (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Topics in analytic and algebraic number theory, elliptic curves, and modular forms.

*Prerequisite(s): Mathematics 346 I**Lib Ed Req: Science***MATHEMATICS 4500****Analysis II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Sequences and series of functions. Uniform continuity. Uniform convergence. The Stone-Weierstrass Theorem. The Lebesgue (or Riemann-Stieltjes) integral. Fourier series. Other topics.

*Prerequisite(s): Mathematics 3500**Lib Ed Req: Science***MATHEMATICS 4505****Analysis (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Topics in measure theory, Banach spaces, Lp-spaces, Fourier and Complex analysis.

*Prerequisite(s): Mathematics 4500**Lib Ed Req: Science*

**MATHEMATICS 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND  
A cumulative GPA of 3.30 or higher

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

---

**Museum Studies (MSTU)**  
**Faculty of Fine Arts**


---

**MUSEUM STUDIES 2900****Introduction to Museum Studies***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-30*

Using the University of Lethbridge Art Gallery collection, students are introduced to many areas of gallery and museum practice: curating, collections management and research, database practices, registration, exhibition preparation, and public programming.

*Prerequisite(s):* Art History 1001 or Art History 1002

*Equivalent:* Art History/Museum Studies 2900 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**MUSEUM STUDIES 3900****Exhibiting Cultures: Art Galleries, Museums and Cultures of Display***Credit hours: 3.00**Contact hours per week: 3-0-0*

Provides a critical framework for examining theoretical issues such as the creations of canons, inclusions and exclusions in museum practices, and the politics of display with respect to race, gender, nationalism, and colonialism.

*Prerequisite(s):* One of Museum Studies 2900 or third-year standing (a minimum of 60.0 credit hours)

*Equivalent:* Art History/Museum Studies 3900 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**MUSEUM STUDIES 4000****Museum Studies Internship***Credit hours: 3.00**Other hours per term: Variable*

Museum Studies research directed toward practical application (such as exhibitions, collections, documentation, text production and/or public programming) within the University of Lethbridge Art Gallery or other cultural organizations.

*Prerequisite(s):* Museum Studies 2900 AND Museum Studies 3900

*Equivalent:* Art History/Museum Studies 4000 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**MUSEUM STUDIES 4001****Advanced Museum Studies Internship I***Credit hours: 3.00**Other hours per term: Variable*

Builds on Museum Studies 4000 to provide advanced study in one area or breadth across art gallery and museum experience. Museum Studies research directed toward practical application (such as curating and installing exhibitions, collections care and management, and/or public programming) within the University of Lethbridge Art Gallery and other cultural organizations.

*Prerequisite(s):* Museum Studies 4000 AND Permission of the internship coordinator

*Equivalent:* Art History/Museum Studies 4001 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**MUSEUM STUDIES 4002****Advanced Museum Studies Internship II***Credit hours: 3.00**Other hours per term: Variable*

Builds on Museum Studies 4001 to provide advanced study in one area or breadth across art gallery and museum experience. Museum Studies research directed toward practical application (such as curating and installing exhibitions, collections care and management, and/or public programming) within the University of Lethbridge Art Gallery and other cultural organizations.

*Prerequisite(s):* Museum Studies 4001 AND Permission of the internship coordinator

*Equivalent:* Art History/Museum Studies 4002 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**MUSEUM STUDIES 4003****Advanced Museum Studies Internship III***Credit hours: 3.00**Other hours per term: Variable*

Builds on Museum Studies 4002 to provide advanced study in one area or breadth across art gallery and museum experience. Museum Studies research directed toward practical application (such as curating and installing exhibitions, collections care and management, and/or public programming) within the University of Lethbridge Art Gallery and other cultural organizations.

*Prerequisite(s):* Museum Studies 4002 AND Permission of the internship coordinator

*Equivalent:* Art History/Museum Studies 4003 (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**MUSEUM STUDIES 4004****Advanced Museum Studies Internship IV***Credit hours: 3.00**Other hours per term: Variable*

Builds on Museum Studies 4003 to provide advanced study in one area or breadth across art gallery and museum experience. Museum Studies research directed toward practical application (such as curating and installing exhibitions, collections care and management, and/or public programming) within the University of Lethbridge Art Gallery and other cultural organizations.

**Prerequisite(s):** Museum Studies 4003 AND Permission of the internship coordinator

**Equivalent:** Art History/Museum Studies 4004 (prior to 2016/2017)

**Lib Ed Req:** Fine Arts and Humanities

**MUSEUM STUDIES 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course. In consultation with the Thesis Supervisor, students will define a research problem, formulate a research plan, conduct research, report orally, and submit a report in the form of an Undergraduate Thesis or by curating an exhibition with an accompanying essay, which will be made publicly available.

**Prerequisite(s):** Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.50 or higher AND

Completion of a minimum of 9 courses (27.0 credit hours) in Art History and/or Museum Studies AND

Application to the Department of Art

**Equivalent:** Art History/Museum Studies 4995 (prior to 2016/2017)

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Music****(MUSI)****Faculty of Fine Arts****MUSIC 1000****Introduction to Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

Lectures and prescribed listening (both recording and concerts) to encourage aural familiarity with compositions representative of significant musical styles. Previous formal education in music not required.

**Lib Ed Req:** Fine Arts and Humanities

**Note:** Not counted in the basic 16-course Arts and Science major or toward required Music courses in the B.Mus. degree. Credit is not allowed for Music 1000 concurrently or subsequent to the completion of Music 2080.

**MUSIC 1011****Materials of Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the language and materials of music theory including: notation, meter, rhythm, intervals, modes, scales and chords.

**Lib Ed Req:** Fine Arts and Humanities

**Note:** Not counted in the basic 16-course Bachelor of Arts major or toward required Music courses in the B.Mus. degree. Credit is not allowed for Music 1011 concurrently or subsequent to the completion of Music 1160, Music 2160 or Music 2260.

**MUSIC 1160****Foundations of Music Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will discuss music fundamentals and basic principles of music notation. Topics will include: notation, scales, key signatures, intervals, triads and seventh chords, rhythm and metre, figuration, and species counterpoint. The primary goal of the course, though, is to become familiar with analytical terms and symbols that communicate the essential compositional tools of tonal music.

**Prerequisite(s):** Completion of the Music Theory Placement Assessment

**Recommended Background:**

A knowledge of music theory rudiments

**Equivalent:** Music 2160 (prior to 2020-2021)

**Lib Ed Req:** Fine Arts and Humanities

**Note:** Credit is not allowed for Music 1160 concurrently or subsequent to the completion of Music 2260.

**MUSIC 2080****Western Art Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of the styles and trends in Western art music from the Medieval period to the 21st century with an emphasis on the recognition of characteristic musical traits of the various periods. This course will introduce the student to academic writing and research in music.

**Recommended Background:**

A knowledge of music theory rudiments

**Lib Ed Req:** Fine Arts and Humanities

**MUSIC 2090****The Eighteenth Century***Credit hours: 3.00**Contact hours per week: 3-0-0*

18th-century music history with an emphasis on musical styles, trends, genres, and compositional features as found in the works of representative composers; aural style identification from selected compositions and continued development of research and writing skills in music.

**Prerequisite(s):** Music 2080

**Substantially Similar:**

Music 3380 (prior to 2016/2017)

**Lib Ed Req:** Fine Arts and Humanities

**MUSIC 2149****Second-Study Studio I***Credit hours: 1.50**Contact hours per week: 0.5-0-0*

Preparation and performance of appropriate technical exercises, studies, and repertoire assigned by the instructor with one-half (1/2) hour of individual instruction per week.

**Prerequisite(s):** Audition-contact the Department of Music for further information

**Lib Ed Req:** Fine Arts and Humanities

**Note:** Studio course.

This course is subject to instructor availability. Studio offerings are subject to quotas. For more information, contact the Department of Music.

**MUSIC 2161****Musicianship Skills I***Credit hours: 1.50**Contact hours per week: 2-1-0*

A practical approach to the cultivation of critical aural perception: specifically to develop the student's sight-singing, rhythm, transcription, and related keyboard skills.

*Corequisite(s): Music 1160**OR**Music 2260**Lib Ed Req: Fine Arts and Humanities***MUSIC 2181****Acoustics***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the physics and psychophysics of music with demonstrations of relevant phenomena and theories explaining them. Topics include studio and sonic environment design; the basic physics of music production including modes of oscillation of mechanical systems, resonance, feedback, and transmission; room reverberation and acoustics; and physical acoustics with applications to music.

*Lib Ed Req: Fine Arts and Humanities***MUSIC 2249****Second-Study Studio II***Credit hours: 1.50**Contact hours per week: 0.5-0-0*

Preparation and performance of appropriate technical exercises, studies, and repertoire assigned by the instructor with one-half (1/2) hour of individual instruction per week.

*Prerequisite(s): A minimum grade of 'C' in Music 2149**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.*

*This course is subject to instructor availability. Studio offerings are subject to quotas. For more information, contact the Department of Music. Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.*

**MUSIC 2260****Harmony in the Common Practice***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course focuses on common-practice harmony and voice leading. Topics covered throughout the term include diatonic harmony, applied dominant chords, and modulation. Analysis and stylistic composition are the primary means by which these topics will be approached and studied.

*Prerequisite(s): Music 1160 or a grade of 80% or better on the Music Theory Placement Assessment**Lib Ed Req: Fine Arts and Humanities***MUSIC 2261****Musicianship Skills II***Credit hours: 1.50**Contact hours per week: 2-1-0*

A practical approach to the cultivation of critical aural perception, specifically to develop the student's sight-singing, rhythm, transcription, and related keyboard skills.

*Prerequisite(s): Music 2161**Corequisite(s): Music 2260**Lib Ed Req: Fine Arts and Humanities***MUSIC 2500****Introduction to Music Technology***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the requisite historical perspective, compositional techniques, and experience with software-based tools to create self-directed sound environments. Emphasis on digital audio theory and electronic/computer generated music to orient students to sound design, audio recording, abstract electronic composition, and new media applications. Topics include introductions to basic acoustics, studio and recording techniques, psychoacoustics, digital representations of sound, sampling, audio processing (DSP), MIDI applications, sequencing, music notation programs, and sound synthesis.

*Recommended Background:*

*A knowledge of music theory rudiments*

*OR**Music 1011**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.*

*Credit is not allowed for Music 2500 concurrently or subsequent to the completion of Music 2510.*

**MUSIC 2510****Introduction to Digital Audio***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the nature and properties of digital audio through theory and experiment. Max/MSP is used throughout the course as an experimental tool to investigate the technical principles of digital audio capture, storage, and processing, as well as the principles of other foundations of digital music technology. The requisite fundamentals of mathematics and physics that are required for an effective, informed sound engineering work are reviewed.

*Recommended Background:*

*A knowledge of music theory rudiments*

*OR**Music 1011**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.***MUSIC 2550****Modern Studio Recording Techniques***Credit hours: 3.00**Contact hours per week: 1.5-1.5-0*

This course introduces studio recording techniques for music production and sound design in a project studio. The main emphasis is placed on technical ear training, theory and practice of recording and postproduction techniques such as microphone technology and placement, mixing balance, reverberation, EQ, and dynamic compression.

*Prerequisite(s): Music 2500**OR**Music 2510 (Corequisite)**Lib Ed Req: Fine Arts and Humanities***MUSIC 3000****Seminar in Music (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Areas of special interest not covered by regular Music courses may be offered under this designation, depending on student interest and availability of faculty time and expertise.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings**Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3030****Film Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of the major trends, styles, and composers of film music from the silent era until the present day.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3080****Popular Music History (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

An in-depth study of specific developments in the history of popular music styles.

Topics may change each time the course is offered, and may address developments in pop, rock, jazz, and other related styles.

Various research methods from the field of popular music studies will be introduced, and may draw from musicology, sociology, music and technology, and other relevant disciplines. The overall goal of the course is to relate developments in popular musical styles to a broader history of music and popular culture. Research and writing will be emphasized.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3090****The Medieval Era to the Early Baroque***Credit hours: 3.00**Contact hours per week: 3-0-0*

Music history from the Medieval era to the early Baroque, with an emphasis on musical styles, trends, genres and compositional features as found in representative works by major composers; aural style identification from selected compositions; and continued development of research and writing skills in music.

*Prerequisite(s): Music 2090 AND Music 2260*

*Substantially Similar:*

*Music 2180 (prior to 2016/2017)*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3149****Composition I***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is designed to expose the student to the basic elements of music composition such as basic elements of notation; introduction to formal elements; basic pitch architectures; historical models for new works; elementary aesthetics.

*Prerequisite(s): Music 3360*

OR

*Music 3460*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Studio course.*

*This course is not open to students studying Composition in the Studio portion of any Music program.*

**MUSIC 3200****Popular Music (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings in subject areas dealing with significant developments in the Popular Music of the 20th and 21st Centuries.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Not counted toward required Music courses in the B.Mus. degree.*

**MUSIC 3249****Composition II***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is a continuation of Music 3149. Topics covered may include advanced notational techniques; the score and parts; continued exploration of basic pitch designs; rhythmic notation and basic organizational principles; basic concepts of orchestration; sophisticated historical models for new works; elementary aesthetics; and philosophy of music.

*Prerequisite(s): Music 3149*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Studio course.*

**MUSIC 3261****Music in Recital***Credit hours: 3.00**Contact hours per week: 3-0-0*

Through a series of weekly noon-hour recitals, this course builds listening skills by exposing students to a diverse cross-section of music from classical through jazz and world music. Preparatory lectures and assignments supplement the concert series by focusing on issues related to music performance and music philosophy. Students will be encouraged to engage the guest performers and composers in open discussion of the ideas and music presented in the recitals and lectures.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** *Music 3261 is intended for non-Music majors and is NOT counted toward the degree requirements in any B.Mus. - Music degree program.*

**MUSIC 3360****Chromatic Harmony***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will focus on chromatic harmony used in music from the late 18th through early 20th centuries, drawing mostly from the Western classical canon. Topics include: mode mixture, Neapolitan and augmented-sixth chords, enharmonic modulation, plagal relations, common-tone chromatic chords, augmented triads, altered and extended dominants, chromatic sequences and omnibus progressions, equal divisions of the octave, neo-Riemannian transformations, ternary form, and art song. Students will learn the tools necessary to analyze music drawn from this repertoire and articulate their findings in their writing. Through regular quizzes, assignments, and projects, students will gain facility to compose music that models the idioms of the lieder and character pieces drawn from the chosen repertoire of study.

*Prerequisite(s): Music 2260*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3361****Musicianship Skills III***Credit hours: 1.50**Contact hours per week: 2-1-0*

A practical approach to the cultivation of critical aural perception, specifically to develop the student's sight-singing skills, rhythm, transcription, and related keyboard skills.

*Prerequisite(s): Music 2261*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3460****Harmony and Form in Jazz and Popular Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course focuses on the study of tonal harmony, chromaticism, and form, drawing from jazz and popular music repertoires. Topics include: mode mixture, tritone substitutions, common-tone chromatic chords, extended and altered chords, ii-V-I progressions and substitutions, reharmonization, popular song forms, and issues of rhythm and meter in jazz and popular music. Students will learn the tools necessary to analyze music drawn from this repertoire and articulate their findings in their writing. Through regular quizzes, assignments, and projects, students will gain facility to compose music that models the idioms from the chosen repertoire of study.

*Prerequisite(s): Music 2260**Lib Ed Req: Fine Arts and Humanities***MUSIC 3461****Musicianship Skills IV***Credit hours: 1.50**Contact hours per week: 2-1-0*

A practical approach to the cultivation of critical aural perception, specifically to develop the student's sight-singing, rhythm, transcription, and related keyboard skills.

*Prerequisite(s): Music 3361**Lib Ed Req: Fine Arts and Humanities***MUSIC 3480****The Nineteenth Century***Credit hours: 3.00**Contact hours per week: 3-0-0*

Music history of the nineteenth century with an emphasis on musical styles, trends, genres and compositional features as found in the works of representative composers; aural skill identification from selected compositions; and continued development of research and writing skills in music.

*Prerequisite(s): Music 2090 AND Music 2260**Lib Ed Req: Fine Arts and Humanities***MUSIC 3500****Conducting I***Credit hours: 3.00**Contact hours per week: 3-0-3*

Principles of conducting, style, score preparation, leadership, conducting and rehearsal techniques. Course requirements include: participation in and observation of rehearsals and performances of a Department of Music ensemble as assigned by the instructor.

*Prerequisite(s): Music 3461**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**MUSIC 3511****Counterpoint***Credit hours: 3.00**Contact hours per week: 3-0-0*

Modal melody and the combination of melodic lines in the 16th-Century contrapuntal style; appraisal of excerpts from the literature; composition of examples; development of parallel aural and sight-singing skills.

*Prerequisite(s): Music 3360*

OR

*Music 3460**Lib Ed Req: Fine Arts and Humanities***MUSIC 3560****Musicians' Health and Health Research***Credit hours: 3.00**Contact hours per week: 3-0-0*

An exploration of relationships between health and music performance including health risks and illnesses that are frequently encountered by professional and amateur musicians, and factors that shape the performance of healthy musicians.

*Prerequisite(s): Completion of 15 university-level courses (a minimum of 45.0 credit hours)**Equivalent: Music 3850 (Musicians' Health Research) (prior to 2018/2019)**Lib Ed Req: Fine Arts and Humanities***MUSIC 3570****Nonlinear Music and Audio for Games***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of non-linear, adaptive and generative music systems, combining game audio production, music composition for interactive media, and user interface design. Course activities give students a set of analytical and production techniques and tools, as well as performance strategies for the growing field of interactive audio, preparing them for the increasing presence of interactive technology in the games industry and digital studio.

*Prerequisite(s): Music 2550*

OR

*New Media 1000**Lib Ed Req: Fine Arts and Humanities***MUSIC 3580****The Twentieth and Twenty-first Centuries***Credit hours: 3.00**Contact hours per week: 3-0-0*

The history of music in the twentieth and twenty-first centuries with an emphasis on musical styles, trends, genres and compositional features as found in the works of representative composers; aural skill identification from selected compositions; and continued development of research and writing skills in music.

*Prerequisite(s): Music 2090 AND**Music 3360 or Music 3460**Lib Ed Req: Fine Arts and Humanities***MUSIC 3600****Conducting II***Credit hours: 3.00**Contact hours per week: 3-0-3*

Advanced principles of conducting, style, score preparation, leadership, conducting and research techniques; incorporating aspects of both choral and instrumental conducting.

*Prerequisite(s): Music 3360 or Music 3460 AND**Music 3361 AND**Music 3500**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

Participation/observation of rehearsals/performances of Department of Music ensembles.

**MUSIC 3605****Introduction to Audio Software Programming***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to computer programming using the Python language. Students will learn how to use audio programming libraries for recording, playback of samples, wavetable synthesis, plotting of audio signals, and manipulation of audio files, filtering, and audio analysis. Students will also process musical information for score notation and computer-aided composition.

*Prerequisite(s): One of Music 2510 or Computer Science 1620*

*Equivalent: Music 4600 (prior to 2018/2019)*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio Course.

**MUSIC 3606****Orchestration***Credit hours: 3.00**Contact hours per week: 3-0-0*

Characteristics and limitations of musical instruments; appraisal of compositions representative of various facets of the art of orchestration; scoring and arrangement for selected instrumental combinations. Course requirements may include: concert attendance, directed score study, prescribed listening.

*Prerequisite(s): Music 3360 or Music 3460 AND Music 3461*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3612****Interactive Music Performance and Production***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of present-day concepts of integrating technology with music, especially in relation to sensor-to-computer interfaces for creative expression and music production. Course activities are designed to give students the techniques and tools for creating their own interactive system and to prepare students for the increasing presence of interactive technology in the music studio and concert hall.

*Prerequisite(s): Music 3605 OR New Media 3380*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.

**MUSIC 3630****Traditional Studio Recording Techniques***Credit hours: 3.00**Contact hours per week: 4-0-0*

This course focuses on music production techniques in a large-format analog studio, from recording to mixing, with an introduction to mastering. Productions include overdubbing projects and live sessions for a diverse variety of musical genres, e.g. pop, indie, folk, rock, jazz, R'n'B. The main emphasis is placed on critical listening, and commercial recording practices where students experience the challenge of engineering 3rd party music projects.

*Prerequisite(s): Music 2550 AND One of Music 1011, Music 1160, or Music 2260*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.

**MUSIC 3650****Location Recording and Production***Credit hours: 3.00**Contact hours per week: 1-2-0*

A continuation of Music 3630 using an apprenticeship model whereby students receive hands-on experience with on-site audio captures and reproductions. Focus on specific theoretical constructs and manipulation of live analog and digital recordings. Students will record and produce professional quality CD reproductions of faculty, student, and guest artist performances. Topics include microphone selection and placement, managing environmental anomalies, stereo versus multi-miking situations, real-time digital and analog processing, mastering, and the psychometrics of capturing live audio.

*Prerequisite(s): Music 3360 or Music 3460 AND Music 3630*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.

**MUSIC 3660****Analysis of Twentieth- and Twenty-first-Century Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

A study of the major analytical theories of twentieth- and twenty-first-century music; analysis of representative repertoire.

*Prerequisite(s): Music 3360 or Music 3460 AND Music 3461*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3670****Audio Synthesis***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides the requisite technical background and theoretical framework for digital sound synthesis methods and audio processing techniques. It begins with a theoretical and practical study of spectral representation, spectral analysis, and spectral modification of sound. Digital sound synthesis and sound processing techniques are then presented as specific spectral models or as projected alterations of sonic structures. The capabilities, properties, and limitations of various types of audio processing for sound synthesis are explored.

*Prerequisite(s): Music 2500 or Music 2510*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.

**MUSIC 3721****World Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to music in selected world cultures and to the field of ethnomusicology.

*Prerequisite(s): Music 2080*

OR

*Music 1000 AND*

*15 university-level courses (a minimum of 45.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**MUSIC 3730****Tonmeister: Classical Music Recording***Credit hours: 3.00**Contact hours per week: 4-0-0*

A 'tonmeister' is both deeply musically trained and has a detailed knowledge of all aspects of sound recording. Students can enrol in this course as sound engineers or classical music performers. Focusing on classical music production, this course incorporates artistic direction, score annotation, digital editing and complex microphone systems for recording sessions in concert halls.

*Prerequisite(s): Music 2260 AND*

*One of Music 2550 or Music Studio 3448*

*Lib Ed Req: Fine Arts and Humanities*

**Note:** Studio course.



**MUSIC 3734****Portfolio and Music Industry***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of the present-day music industry. Students explore how to uncover and expose their musical passion and talent, while expanding their ability to organise professional opportunities, develop professional connections, and increase their potential to work in a competitive field. Models for the production, promotion, distribution, and sales of recorded and live music are studied. Students are required to propose and support new twenty-first century models that include the development of a professional web-based portfolio.

*Prerequisite(s): Music 2550**OR**15 university-level courses (a minimum of 45.0 credit hours)**Lib Ed Req: Fine Arts and Humanities***MUSIC 3735****Electronics for Music Applications***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the fundamentals of electricity, magnetism, and electronic circuit design as they apply to music technology. Introduction to micro-controllers, sensor-based data acquisition for music applications, reading of technical schematics, electrical trouble-shooting, and basic soldering and bread-boarding techniques for circuit prototyping.

*Prerequisite(s): Music 2510**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.***MUSIC 3738****Music Education Technologies***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of computer software and hardware available for music education in conjunction with a literature review of the use of technology in music curricula. The pedagogical approaches that utilize these systems will be examined and coupled with practical 'hands-on' learning and teaching experience. The materials explored include notation, recording, ear training, sampling, and sound generating tools.

*Prerequisite(s): One of Music 2550, Music 3360, or Music 3460**Lib Ed Req: Fine Arts and Humanities***MUSIC 3871****Opera Workshop I***Credit hours: 3.00**Contact hours per week: 5-0-0**Other hours per term: 0-0-10*

Preparation and performance of musical material in an opera workshop production.

*Prerequisite(s): Audition**Recommended Background:**Music 2248**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.*

*Students are required to participate in associated rehearsals and perform in the production prior to receiving a final grade for the course. Production dates may overlap one or more terms.*

**MUSIC 4000****Seminar in Music (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Topics of special interest not covered by regular music courses may be offered under this designation, depending upon student interest and availability of faculty.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings**Lib Ed Req: Fine Arts and Humanities***MUSIC 4080****Music After 1945***Credit hours: 3.00**Contact hours per week: 3-0-0*

An in-depth study of musical styles, composers and compositional trends that have developed in Western art music traditions post-World War II; aural style identification from selected compositions; and continued development of research and writing skills in music.

*Prerequisite(s): Music 3360 or Music 3460**AND**Music 3580**Lib Ed Req: Fine Arts and Humanities***MUSIC 4632****Programming for Music Applications***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to various programming languages and systemic processes commonly used in computer applications for music. Topics include an introduction to algorithms and programming; data structures and programming techniques for the development of music and audio software and integrated system components (plug-ins); development of audio and control systems; advanced data structures; object-oriented programming; source code optimization for Digital Signal Processing (DSP) applications; and debugging techniques.

*Prerequisite(s): Music 3605**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.***MUSIC 4633****Music Software Design***Credit hours: 3.00**Contact hours per week: 3-0-0*

A continuation of Music 4632, this is an advanced course in the design, programming, debugging, and packaging of music software. Topics may include: data compression and decompression algorithms; music and audio support in current programming languages; the development of object-oriented software for interactive and/or networked music and audio; and source code development for distribution and beta testing. Students will complete a large software application project.

*Prerequisite(s): Music 4632**Lib Ed Req: Fine Arts and Humanities***MUSIC 4636****Music Design for Film and Digital Media***Credit hours: 3.00**Contact hours per week: 3-0-0*

An advanced composition course focusing on creating music for film, documentaries, and digital media. A study of film/media music editing and compositional techniques from both historical and contemporary perspectives. Production of original scores using the techniques described and production/recording processes available.

*Prerequisite(s): One of Music 2500 or Music 2510 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.*

**MUSIC 4637****Immersive Audio***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course explores current audio spatialization approaches and technologies for studio mixing and live engineering. Students will gain experience with formats including 5.1 surround sound, binaural audio for headphones, and live multichannel. The main emphasis of the course is placed on object-based mixing principles to optimize the combability of the creative use of spatialization techniques among diverse diffusion formats.

*Prerequisite(s): Music 3630**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.***MUSIC 4660****Form and Analysis***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will familiarize students with aspects of musical form in the common-practice repertoire. The course begins with the smallest units of form: phrase structure, including the sentence, period, and hybrid. The focus will then extend beyond this, to include large-scale forms such as binary, ternary, compound ternary, theme and variations, rondo, and sonata. Students will learn to apply this knowledge both through analytical writing assignments and model composition.

*Prerequisite(s): Music 3360 or Music 3460***AND***Music 3461**Lib Ed Req: Fine Arts and Humanities***MUSIC 4721****Canadian Music***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the music of selected Canadian composers representative of trends in the history of Canadian Music.

*Prerequisite(s): Music 3580**Lib Ed Req: Fine Arts and Humanities***MUSIC 4749****Applied Research in Digital Audio Arts I***Credit hours: 3.00**Contact hours per week: 3-0-0*

A research and creation course in which students receive instruction and direction with regards to project conception, development, production, and dissemination. Each student undertakes activities aimed at developing and maintaining their own research plan throughout the term and improving their individual and collaborative presentation skills. A final research-creation production is required by the end of the course.

*Prerequisite(s): Music 3612***OR***Music 3670**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.***MUSIC 4849****Applied Research in Digital Audio Arts II***Credit hours: 3.00**Contact hours per week: 3-0-0*

A research and creation course in which students receive instruction and direction with regards to project conception, development, production, and dissemination. Each student undertakes activities aimed at developing and maintaining their own research plan throughout the term and improving their individual and collaborative presentation skills. A final research-creation production that illustrates the results of a student's academic work in both Applied Research and the Digital Audio Arts major is required by the end of the course.

*Prerequisite(s): Music 4749**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.***MUSIC 4871****Opera Workshop II***Credit hours: 3.00**Contact hours per week: 5-0-0**Other hours per term: 0-0-10*

Preparation and performance of musical material in an opera workshop production.

*Prerequisite(s): Music 3871 AND**Audition**Recommended Background:**Music 2248**Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.*

*Students are required to participate in associated rehearsals and perform in the production prior to receiving a final grade for the course. Production dates may overlap one or more terms.*

**Music Ensemble Activity****(MUSE)****Faculty of Fine Arts****MUSIC ENSEMBLE ACTIVITY 1350  
University Wind Orchestra I***Credit hours: 1.50**Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Audition – contact the Department of Music for further details*

**Note:** *Also available to all qualified students on a non-credit basis.  
Attendance requirement.*

**MUSIC ENSEMBLE ACTIVITY 1351  
University Wind Orchestra II***Credit hours: 1.50**Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Music Ensemble Activity 1350 AND*

*Audition*

**Note:** *Also available to all qualified students on a non-credit basis.  
Attendance requirement.*

**MUSIC ENSEMBLE ACTIVITY 1360  
Orchestra I***Credit hours: 1.50**Contact hours per week: 0-0-3**Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Audition – contact the Department of Music for further details*

**Note:** *Attendance requirement.*

### **MUSIC ENSEMBLE ACTIVITY 1361 Orchestra II**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

*Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 1360*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 1550 University Singers I**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Audition – contact the  
Department of Music for  
further details*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 1551 University Singers II**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble  
Activity 1550 or Music  
Ensemble Activity 1560 AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 1560 Women's Chorus I**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Audition - contact the  
Department of Music for  
further details*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 1561 Women's Chorus II**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble  
Activity 1550 or Music  
Ensemble Activity 1560 AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 1650 Percussion Ensemble I**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Participatory studies in percussion and world music including African drumming and steel drums. Weekly rehearsals.

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 1651 Percussion Ensemble II**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Participatory studies in percussion and world music including African drumming and steel drums. Weekly rehearsals.

*Prerequisite(s): Music Ensemble Activity 1650*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2350 University Wind Orchestra III**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Music Ensemble Activity 1351  
AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2351 University Wind Orchestra IV**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Music Ensemble Activity 2350  
AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2360 Orchestra III**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

*Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 1361*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2361 Orchestra IV**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

*Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 2360*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2450 Collaborative Piano/Guitar - Fundamentals**

*Credit hours: 1.50*

*Contact hours per week: 1.5-0-0*

*Other hours per term: 0-0-4*

An introduction to the skills required to be a good collaborative artist including sight reading and quick study; preparation of vocal and instrumental scores; rehearsal techniques; and listening, voicing, and balancing. Students will practice their skills with fellow vocal and instrumental students as well as with classmates in four-hand piano literature.

*Prerequisite(s): One of Music 2248 or Audition*

### **MUSIC ENSEMBLE ACTIVITY 2451 Collaborative Piano/Guitar with Voice I**

*Credit hours: 1.50*

*Contact hours per week: 1.5-0-0*

*Other hours per term: 0-0-6*

An introduction to the English and Italian literature for piano/guitar and voice, and to the musical interpretation of text. Introduction to English lyric diction and the International Phonetic Alphabet (IPA). Bi-weekly class performances with a vocal partner, bi-weekly duo coaching, and end-of-term recital.

*Prerequisite(s): Music Ensemble Activity 2450*

### **MUSIC ENSEMBLE ACTIVITY 2550 University Singers III**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble Activity 1551 or Music Ensemble Activity 1561 AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2551 University Singers IV**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble Activity 2550 or Music Ensemble Activity 2560 AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2560 Women's Chorus III**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble Activity 1551 or Music Ensemble Activity 1561 AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2561 Women's Chorus IV**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble Activity 2550 or Music Ensemble Activity 2560 AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2650 Percussion Ensemble III**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Participatory studies in percussion and world music including African drumming and steel drums. Weekly rehearsals.

*Prerequisite(s): Music Ensemble Activity 1651*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2651 Percussion Ensemble IV**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Participatory studies in percussion and world music including African drumming and steel drums. Weekly rehearsals.

*Prerequisite(s): Music Ensemble Activity 2650*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 2950 Jazz Ensemble I**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

*Prerequisite(s): Audition – contact the Department of Music for further details*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

**MUSIC ENSEMBLE ACTIVITY 295 I****Jazz Ensemble II***Credit hours: 1.50**Contact hours per week: 0-0-4*

Participatory studies in jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

*Prerequisite(s): Music Ensemble Activity 2950***AND***Audition*

**Note:** Also available to all qualified students on a non-credit basis.

*Attendance requirement.***MUSIC ENSEMBLE ACTIVITY 3350****University Wind Orchestra V***Credit hours: 1.50**Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. Weekly rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 235 I***AND***Audition*

**Note:** Also available to all qualified students on a non-credit basis.

*Attendance requirement.***MUSIC ENSEMBLE ACTIVITY 335 I****University Wind Orchestra VI***Credit hours: 1.50**Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. Weekly rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 3350***AND***Audition*

**Note:** Also available to all qualified students on a non-credit basis.

*Attendance requirement.***MUSIC ENSEMBLE ACTIVITY 3352****Contemporary and Electroacoustics Ensemble I***Credit hours: 1.50**Contact hours per week: 0-0-3*

Performance of contemporary art music of the last several decades, with the possibility of performing compositions that integrate acoustic instrumental music with electroacoustic musical forms. Activities consist of studying traditional performance practices and engaging in experimental approaches that include developing new digital instruments, creating new performance paradigms, applying creative sound production techniques, and exploring a potential for new forms of musical expressivity through contemporary music.

*Prerequisite(s): Audition***Note:** Attendance requirement.**MUSIC ENSEMBLE ACTIVITY 3360****Orchestra V***Credit hours: 1.50**Contact hours per week: 0-0-3**Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 236 I***Note:** Attendance requirement.**MUSIC ENSEMBLE ACTIVITY 336 I****Orchestra VI***Credit hours: 1.50**Contact hours per week: 0-0-3**Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 3360***Note:** Attendance requirement.**MUSIC ENSEMBLE ACTIVITY 3450****Collaborative Piano/Guitar with Voice II***Credit hours: 1.50**Contact hours per week: 2-0-0**Other hours per term: 0-0-6*

An introduction to the literature for piano/guitar and voice in French and German. Bi-weekly class performances with a vocal partner, bi-weekly duo coaching, and end-of-term recital.

*Prerequisite(s): Music Ensemble Activity 245 I***MUSIC ENSEMBLE ACTIVITY 345 I****Collaborative Piano/Guitar - Instruments***Credit hours: 1.50**Contact hours per week: 2-0-0**Other hours per term: 0-0-6*

Introduction to the literature for piano/guitar and one or two instruments (woodwinds, brass, or strings), including orchestral reductions. Bi-weekly class performances, bi-weekly coaching, and end-of-term recital.

*Prerequisite(s): Music Ensemble Activity 3450***MUSIC ENSEMBLE ACTIVITY 3452****Contemporary and Electroacoustics Ensemble II***Credit hours: 1.50**Contact hours per week: 0-0-3*

Performance of contemporary art music of the last several decades, with the possibility of performing compositions that integrate acoustic instrumental music with electroacoustic musical forms. Activities consist of studying traditional performance practices and engaging in experimental approaches that include developing new digital instruments, creating new performance paradigms, applying creative sound production techniques, and exploring a potential for new forms of musical expressivity through contemporary music.

*Prerequisite(s): Music Ensemble Activity 3352***Note:** Attendance requirement.**MUSIC ENSEMBLE ACTIVITY 3550****University Singers V***Credit hours: 1.50**Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble**Activity 255 I or Music**Ensemble Activity 256 I AND**Audition*

**Note:** Also available to all qualified students on a non-credit basis.

*Attendance requirement.*

### MUSIC ENSEMBLE ACTIVITY 355 I University Singers VI

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble Activity 3550 or Music Ensemble Activity 3560 AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 3560 Women's Chorus V

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble Activity 255 I or Music Ensemble Activity 256 I AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 356 I Women's Chorus VI

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble Activity 3550 or Music Ensemble Activity 3560 AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 3750 Collegium Musicum I

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Participatory studies in early music performance practice with a focus on the music of the Medieval and Renaissance periods. This ensemble's activities will include the preparation for performance of early music, making use of the Department's collection of early instruments. Weekly rehearsals.

*Prerequisite(s): Audition – contact the Department of Music for further details*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 375 I Collegium Musicum II

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Participatory studies in early music performance practice with a focus on the music of the Medieval and Renaissance periods. This ensemble's activities will include the preparation for performance of early music, making use of the Department's collection of early instruments. Weekly rehearsals.

*Prerequisite(s): Music Ensemble Activity 3750 AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 3870 Chamber Music I

*Credit hours: 1.50*

*Contact hours per week: 1-0-3*

Chamber music performances with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances as required.

*Prerequisite(s): Audition – only pre-arranged ensembles may apply; contact the Department of Music for further details*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 387 I Chamber Music II

*Credit hours: 1.50*

*Contact hours per week: 1-0-3*

Chamber music performances with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances as required.

*Prerequisite(s): Music Ensemble Activity 3870*

**Note:** Subject to availability of the instructor.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 3950 Jazz Ensemble III

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies of the art of jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

*Prerequisite(s): Music Ensemble Activity 295 I AND Audition*

### MUSIC ENSEMBLE ACTIVITY 395 I Jazz Ensemble IV

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies of the art of jazz performance with a focus on historical and stylistic performance practices. Weekly rehearsals.

*Prerequisite(s): Music Ensemble Activity 3950 AND Audition*

### MUSIC ENSEMBLE ACTIVITY 4350 University Wind Orchestra VII

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Music Ensemble Activity 335 I AND Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 435 I University Wind Orchestra VIII**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies of the art of wind ensemble performance with a focus on historical and stylistic performance practices in connection with selected wind ensemble literature. The wind ensemble's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): Music Ensemble Activity 4350  
AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 4352 Contemporary and Electroacoustics Ensemble III**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Performance of contemporary art music of the last several decades, with the possibility of performing compositions that integrate acoustic instrumental music with electroacoustic musical forms. Activities consist of studying traditional performance practices and engaging in experimental approaches that include developing new digital instruments, creating new performance paradigms, applying creative sound production techniques, and exploring a potential for new forms of musical expressivity through contemporary music.

*Prerequisite(s): Music Ensemble Activity 3452*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 4360 Orchestra VII**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

*Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 336 I*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 436 I Orchestra VIII**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

*Other hours per term: 0-0-15*

Participatory studies in the art of orchestral performance. The Orchestra's activities consist of weekly rehearsals together with such supplementary rehearsals and performances as may be required.

*Prerequisite(s): Music Ensemble Activity 4360*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 4452 Contemporary and Electroacoustics Ensemble IV**

*Credit hours: 1.50*

*Contact hours per week: 0-0-3*

Performance of contemporary art music of the last several decades, with the possibility of performing compositions that integrate acoustic instrumental music with electroacoustic musical forms. Activities consist of studying traditional performance practices and engaging in experimental approaches that include developing new digital instruments, creating new performance paradigms, applying creative sound production techniques, and exploring a potential for new forms of musical expressivity through contemporary music.

*Prerequisite(s): Music Ensemble Activity 4352*

**Note:** Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 4550 University Singers VII**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble  
Activity 355 I or Music  
Ensemble Activity 356 I AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 455 I University Singers VIII**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The University Singers' activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble  
Activity 4550 or Music  
Ensemble Activity 4560 AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 4560 Women's Chorus VII**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble  
Activity 355 I or Music  
Ensemble Activity 356 I AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### **MUSIC ENSEMBLE ACTIVITY 456 I Women's Chorus VIII**

*Credit hours: 1.50*

*Contact hours per week: 0-0-4*

Participatory studies in women's chamber choir performance with a focus on historical and stylistic performance practices within the chamber choir literature. The Women's Chorus activities consist of two weekly rehearsals together with such supplementary rehearsals and performances as may be arranged.

*Prerequisite(s): One of Music Ensemble  
Activity 4550 or Music  
Ensemble Activity 4560 AND  
Audition*

**Note:** Also available to all qualified students on a non-credit basis.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 4870 Chamber Music III

Credit hours: 1.50

Contact hours per week: 1-0-3

Chamber music performance with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances required.

Prerequisite(s): Music Ensemble Activity 3871

**Note:** Subject to availability of the instructor and funding.  
Attendance requirement.

### MUSIC ENSEMBLE ACTIVITY 4871 Chamber Music IV

Credit hours: 1.50

Contact hours per week: 1-0-3

Chamber music performance with a focus on historical and stylistic performance practices. Weekly one-hour coachings; weekly rehearsals with supplementary rehearsals and performances required.

Prerequisite(s): Music Ensemble Activity 4870

**Note:** Subject to availability of the instructor and funding.  
Attendance requirement.

### Music Studio (MUSS) Faculty of Fine Arts

### MUSIC STUDIO 2148 Studio I - Instrument

Credit hours: 3.00

Contact hours per week: 1-4-0 or 3-0-0

Preparation and performance of appropriate technical exercises, studies, and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction, or three hours of classroom instruction, per week; concert attendance.

Prerequisite(s): Audition – contact the Department of Music for further information

Equivalent: Music 2148 (prior to 2018/2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.

### MUSIC STUDIO 2248 Studio II - Instrument

Credit hours: 3.00

Contact hours per week: 1-4-0

Preparation and performance of appropriate technical exercises, studies and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite(s): A minimum grade of 'C' in Music Studio 2148

Equivalent: Music 2248 (prior to 2018/2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.  
Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.

### MUSIC STUDIO 3348 Studio III - Instrument

Credit hours: 3.00

Contact hours per week: 1-4-0

Preparation and performance of appropriate technical exercises, studies and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite(s): A minimum grade of 'C' in Music Studio 2248

Equivalent: Music 3348 (prior to 2018/2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.  
Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.

### MUSIC STUDIO 3448 Studio IV - Instrument

Credit hours: 3.00

Contact hours per week: 1-4-0

Preparation and performance of appropriate technical exercises, studies and repertoire assigned by the instructor. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite(s): A minimum grade of 'C' in Music Studio 3348

Equivalent: Music 3448 (prior to 2018/2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.  
Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.

### MUSIC STUDIO 3548 Studio V - Instrument

Credit hours: 3.00

Contact hours per week: 1-4-0

A natural extension of the previous Studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite(s): Music 2090 AND Music 2260 AND Music 2261 AND A minimum grade of 'C' in Music Studio 3448  
OR  
Admission to a Post-Diploma B.Mus. program with a major in Music

Equivalent: Music 3548 (prior to 2018/2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.  
Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.

### MUSIC STUDIO 3648 Studio VI - Instrument

Credit hours: 3.00

Contact hours per week: 1-4-0

A natural extension of the previous studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance. Design and presentation of a recital in lieu of examination at the discretion of the studio instructor.

Prerequisite(s): A minimum grade of 'C' in Music Studio 3548

Equivalent: Music 3648 (prior to 2018/2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.  
Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.



**MUSIC STUDIO 4748****Studio VII - Instrument**

Credit hours: 3.00

Contact hours per week: 1-4-0

A natural extension of the previous studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Course requirements include: one hour of individual and up to four hours of master class instruction per week; concert attendance.

Prerequisite(s): Music 3360 or Music 3460  
AND

Music 3461 AND

Music 3480 AND

a minimum grade of 'C' in  
Music Studio 3648

Equivalent: Music 4748 (prior to 2018/  
2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.

Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.

**MUSIC STUDIO 4848****Studio VIII - Instrument**

Credit hours: 3.00

Contact hours per week: 1-4-0

One hour of individual and up to four hours of master class instruction per week; concert attendance requirement. A natural extension of the previous studio course, but the literature selected is to be more demanding and a higher level of performance is expected. Design and presentation of a recital in lieu of examination at the discretion of the studio instructor.

Prerequisite(s): A minimum grade of 'C' in  
Music Studio 4748

Equivalent: Music 4848 (prior to 2018/  
2019)

Lib Ed Req: Fine Arts and Humanities

**Note:** Studio course.

Should a grade of less than 'C' be earned in a prerequisite studio course, advancement in the studio sequence shall depend upon the results of an audition.

**Neuroscience****(NEUR)****Faculty of Arts and Science****NEUROSCIENCE 1000****Introduction to Neuroscience**

Credit hours: 3.00

Contact hours per week: 3-0-0

Introduction to the brain and how its ability to process information affects the way we interact with each other and the world around us.

Lib Ed Req: Science

**NEUROSCIENCE 2300/LIBERAL EDUCATION 2300****Core Brain Story**

Credit hours: 3.00

Contact hours per week: 3-0-0

Lifelong health is determined by many factors including genes, experiences, and social environment. Experiences at sensitive periods of development change the brain in ways that increase or decrease risk for later physical and mental illness, including addiction. This course is based on the Core Story of Brain Development offered by the Alberta Family Wellness Initiative (AFWI) and includes significant Indigenous content presented by Indigenous scholars. It is designed for students from any discipline seeking a deeper understanding of early brain development and its consequences for lifelong health, executive function development, and recovery from trauma, and includes Indigenous perspectives on life-long health and recovery from trauma.

Equivalent: Neuroscience 1850/Liberal Education 1850 (The Core Story of Brain Development) (prior to 2022/2023);  
Neuroscience 2850/Liberal Education 2850 (The Core Story of Brain Development) (prior to 2022/2023)

Lib Ed Req: Science

**NEUROSCIENCE 2610****Principles of Brain Structure and Function**

Credit hours: 3.00

Contact hours per week: 3-0-0

The evolution of structure, function, and neurotransmission in the nervous system.

Prerequisite(s): One of Neuroscience 1000, Biology 1010, Psychology 1010, or Psychology 1000 (prior to 2022/2023)

Substantially Similar:

Neuroscience 2600 (prior to 2022/2023)

Lib Ed Req: Science

**NEUROSCIENCE 2620****Principles of Behavioural Neuroscience**

Credit hours: 3.00

Contact hours per week: 3-0-0

A systems neuroscience approach to understanding behaviour and neuroplasticity.

Prerequisite(s): One of Neuroscience 1000, Biology 1010, Psychology 1010, or Psychology 1000 (prior to 2022/2023)

Substantially Similar:

Neuroscience 2600 (prior to 2022/2023)

Lib Ed Req: Science

**NEUROSCIENCE 3300/ INTERDISCIPLINARY STUDIES 3300****Introduction to Robotics**

Credit hours: 3.00

Contact hours per week: 3-0-0

Hands-on course in which students acquire basic skills in building and programming robotics. Students will learn to design and build robots to accomplish tasks such as handling sensor signals, navigation and path planning, motor control, and basic cognitive robotics and machine learning.

Prerequisite(s): One of Computer Science 1620, Neuroscience 3690, or Physics 2900

Equivalent: Neuroscience 3850/ Interdisciplinary Studies 3850 (Introduction to Robotics) (prior to 2020/2021)

Lib Ed Req: Science

**NEUROSCIENCE 3600****Fundamental Neurobiology***Credit hours: 3.00**Contact hours per week: 3-0-0*

The basic principles of brain structure and function.

*Prerequisite(s): One of Neuroscience 2610 or Biology 2000*

*Lib Ed Req: Science*

**NEUROSCIENCE 3605****Research Methods in Neuroscience***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the techniques and methods used in modern neuroscience research.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in Neuroscience or Psychology*

*Recommended Background:*

One of Neuroscience 2610, Neuroscience 2620, or Biology 2000

*Lib Ed Req: Science*

**Note:** Students who wish to pursue graduate studies in Neuroscience should take Neuroscience 3605.

**NEUROSCIENCE 3610****Human Neuropsychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theories and research on human brain function and the diagnosis of brain damage in humans. Study of brain asymmetry and effect of neurological disorders on complex psychological functions such as language, perception, memory and personality.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in Neuroscience or Psychology*

*Recommended Background:*

One of Neuroscience 2610 or Neuroscience 2620

*Lib Ed Req: Science*

**NEUROSCIENCE 3615****Functional Neuroanatomy***Credit hours: 3.00**Contact hours per week: 3-0-0*

A detailed examination of the functional organization of the mammalian brain. Students are expected to have an introductory-level understanding of the brain.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in Neuroscience or Psychology*

*Recommended Background:*

Neuroscience 2610

*Lib Ed Req: Science*

**NEUROSCIENCE 3625****Cellular and Molecular Neurobiology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Genetic and environmental influences on the regulation of cellular and molecular processes underlying brain function and behaviour. The implications of these processes for understanding diseases of the nervous system will be emphasized.

*Prerequisite(s): Biology 2000*

*Recommended Background:*

Neuroscience 2610

*Lib Ed Req: Science*

**NEUROSCIENCE 3640****Brain Plasticity and Memory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Molecular and morphological bases of experience-induced changes in the brain.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in Neuroscience or Psychology*

*Recommended Background:*

Neuroscience 2620

*Lib Ed Req: Science*

**NEUROSCIENCE 3645****Cognitive Neuroscience I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of the neural mechanisms that convert sensory stimuli into perceptual experiences. Emphasis on sensory physiology, perception, and the attentional processes that filter sensory input.

*Prerequisite(s): One of Neuroscience 2610 or Neuroscience 2620*

*Lib Ed Req: Science*

**NEUROSCIENCE 3655****Cognitive Neuroscience II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the methods and findings which connect mental processes with the brain, with emphasis on higher-level functions such as cognitive control, emotion, memory, and consciousness.

*Prerequisite(s): One of Neuroscience 2610 or Neuroscience 2620 AND One course (3.0 credit hours) at the 2000 level in Psychology*

*Recommended Background:*

Neuroscience 3645

*Lib Ed Req: Science*

**NEUROSCIENCE 3660****Neurobiological Basis of Learning and Memory in the Mammal***Credit hours: 3.00**Contact hours per week: 3-0-0*

Analysis of the processes by which the mammalian nervous system acquires and stores information and how it transforms this information into thought and behaviour. Exploration of theoretical and empirical contributions to our understanding of the neural basis of learning and memory. Topics will include: mechanisms of synaptic plasticity, localization of function, electrophysiological correlates of learning, modulation of memory, age-related cognitive decline, and psychiatric disorders.

*Prerequisite(s): Neuroscience 2620*

*Equivalent: Neuroscience 3850*

(Neurobiology of Learning and Memory) (prior to 2018/2019)

*Lib Ed Req: Science*

**NEUROSCIENCE 3680****Neuroscience (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings will focus on the relationship between the structure and the function of the nervous system. Specific offerings may include the cellular basis of nervous system disorders, the biological basis of behaviour, and the neural substrates of cognitive processes.

*Prerequisite(s): Two 2000-level courses (6.0 credit hours) in Neuroscience or Psychology*

*Recommended Background:*

One of Neuroscience 2610 or Neuroscience 2620

*Lib Ed Req: Science*

**NEUROSCIENCE 3690****Introduction to Programming and Statistics in MATLAB***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to programming in MATLAB. Acquisition of basic MATLAB programming skills, data analysis, and application of different statistical methods.

*Prerequisite(s): Two courses (6.0 credit hours) at the 2000 level designated 'Science'*

*Lib Ed Req: Science*

## NEUROSCIENCE 3700/ BIOCHEMISTRY 3700

### Introduction to Bioinformatics

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

Basic skills in bioinformatics analysis and foundational knowledge in the handling and application of omics big data in life sciences. Introduction to biological databases and simple programming languages that will enable students to conduct basic analysis of genomes, transcriptomes, epigenomes, and proteomes. Interpretation of data through work in interdisciplinary teams laying the foundations of a future career in the field of bioinformatics and genomics. Computer labs will focus on computational tools and case studies in biomolecular sciences and neurosciences.

*Prerequisite(s):* One of Biochemistry 2000, Biology 2000, or Computer Science 1620

*Equivalent:* Biochemistry 3850 (Bioinformatics I) (prior to 2020/2021)

*Lib Ed Req:* Science

*List/Subfield:* Biology List 1 - Cellular and Molecular Biology

## NEUROSCIENCE 3710

### Behaviour and the Evolution of Brains

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Examination of how understanding the evolutionary origins and functions of behaviour can enhance our understanding of the organization and function of nervous systems. A comparative approach is emphasized for studying how behaviour and brains co-evolve.

*Prerequisite(s):* Neuroscience 2610

*Recommended Background:* Psychology 2700

*Lib Ed Req:* Science

## NEUROSCIENCE 3720

### Play Behaviour

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Why do some animals play while others do not? How does the nervous system produce such behaviour? This course uses the conceptual tools from the fields of Animal Behaviour and Behavioural Neuroscience to understand the origins and functions of this most enigmatic of behaviours.

*Prerequisite(s):* Neuroscience 2610 AND Psychology 2700

*Equivalent:* Neuroscience 3705 (prior to 2020/2021)

*Lib Ed Req:* Science

## NEUROSCIENCE 4600

### Understanding Behaviour

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A scientific approach to studying behaviour, whatever the field (e.g., Behavioural Ecology, Behavioural Neuroscience, Behavioural Pharmacology), requires measuring behaviour, but what is measured can influence conclusions. This course explores principles useful for selecting appropriate 'units' to measure and how to measure them.

*Prerequisite(s):* Two courses (6.0 credit hours) at the 3000 level in Neuroscience or Psychology

*Recommended Background:*

One of Neuroscience 3605, Neuroscience 3710, or Neuroscience 3720

*Lib Ed Req:* Science

## NEUROSCIENCE 4620

### Introduction to Computation in Neural Systems

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Theoretical principles and biological mechanisms underlying how brains acquire, assimilate, store, and retrieve information, and how they compute adaptive responses to external inputs.

*Prerequisite(s):* Two courses (6.0 credit hours) at the 3000 level or higher in Biology, Computer Science, Mathematics, Neuroscience, Physics, or Psychology

*Recommended Background:* Neuroscience 3600

*Lib Ed Req:* Science

## NEUROSCIENCE 4630 Neuroscience (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Advanced seminars in Neuroscience. Offerings will focus on the relationship between the structure and the function of the nervous system. Specific offerings may include the cellular basis of nervous system disorders, the biological basis of behaviour, and the neural substrates of cognitive processes.

*Prerequisite(s):* Two 3000-level courses (6.0 credit hours) in Neuroscience or Psychology

*Recommended Background:*

One of Neuroscience 3600, Neuroscience 3605, Neuroscience 3610, Neuroscience 3640, Neuroscience 3680, Psychology 3525, or Psychology 3535

*Lib Ed Req:* Science

## NEUROSCIENCE 4700

### Advanced Applications of Computational Methods

*Credit hours: 3.00*

*Contact hours per week: Variable*

This course is designed to help students with data analyses on a project of their choice using MATLAB as a programming tool. Series of lectures, seminar-style meetings, and one-on-one guidance for students as they pursue individual projects.

*Prerequisite(s):* One of Neuroscience 2610, Neuroscience 2620, or Neuroscience 3690

*Recommended Background:*

One course (3.0 credit hours) in the sciences at the 3000 level

*Equivalent:* Neuroscience 4850 (Advanced Applications of Computational Neuroscience) (prior to 2020/2021)

*Lib Ed Req:* Science

**NEUROSCIENCE 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct empirical research, report orally on the work, and submit a report in the form of an Undergraduate Thesis which will be made publicly available.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.30 or higher AND

Application to the Department of Neuroscience

*Recommended Background:*

One Independent Study, Applied Study, or summer research internship in Neuroscience (or a cognate discipline)

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**New Media****(NMED)****Faculty of Fine Arts****NEW MEDIA 1000****Introduction to New Media***Credit hours: 3.00**Contact hours per week: 4-0-0*

A survey of artistic developments related to the electronic era, the relationship of computer-facilitated arts to traditional genres and a critical examination of selected contemporary works.

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

**NEW MEDIA 1010****Introduction to Animation***Credit hours: 3.00**Contact hours per week: 4-0-0*

A survey of animation using traditional and contemporary techniques.

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

Not counted in the core New Media courses in the B.F.A. - New Media.

**NEW MEDIA 2000****Interactive Technology (Series)***Credit hours: 3.00**Contact hours per week: 4-0-0*

Offerings in subject areas dealing with interactive technology.

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

Not counted in the core New Media courses in the B.F.A. - New Media.

**NEW MEDIA 2005****Design Fundamentals for New Media***Credit hours: 3.00**Contact hours per week: 4-0-0*

Introduction to design fundamentals and principles as they relate to new media. Concepts and practice of graphic design, typography, and colour theory will be explored in relation to specific media such as print, web, and other new media applications.

*Corequisite(s):* New Media 1000

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

**NEW MEDIA 2010****Visual Communications for New Media***Credit hours: 3.00**Contact hours per week: 4-0-0*

Design and communication theory and practice with emphasis on increasing comprehension by an audience as relevant to various areas of static and time based digital media.

*Prerequisite(s):* New Media 1000 AND New Media 2005

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

**NEW MEDIA 2015****Digital Drawing and Animation***Credit hours: 3.00**Contact hours per week: 3-0-0*

A critical investigation of digital mark-making including histories, code-based drawing, interactive drawing, frame-based animation, and exploratory drawing techniques.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

**NEW MEDIA 2030****Digital Video Production***Credit hours: 3.00**Contact hours per week: 4-0-0*

An introduction to the fundamental concepts and techniques of digital video production, with studies in aesthetics and sequence construction, utilizing elements and principles of directing, cinematography, and editing.

*Prerequisite(s):* New Media 1000

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

**NEW MEDIA 2040****Function and Culture of Design***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of topics centered on creative problem solving through design. A selection of visual, industrial, and product related design approaches are examined and foundational skills in design thinking are developed that address the functional, cultural, and philosophical aspects of design.

*Prerequisite(s):* New Media 1000 or Second-year standing (a minimum of 30.0 credit hours)

*Equivalent:* New Media 2850 (The Culture of Digital Visualization and Computer Interactivity) (prior to 2016/2017)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Studio course.

**NEW MEDIA 2150****Memes, Influencers, and Digital Convergence***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the field of new media and its major technologies, cultures, aesthetics, and contemporary practices through a variety of foundational, historical, and theoretical perspectives.

*Lib Ed Req:* Fine Arts and Humanities

**NEW MEDIA 2230****Internet Television Production***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides a theoretical and practical approach to understanding the elements of multi-camera internet television production. Students will develop and create a series of short programs meant for web consumption.

*Prerequisite(s): New Media 2030*

*Equivalent:* New Media 2850 Internet Television Production (prior to 2021/2022)

*Lib Ed Req:* Fine Arts and Humanities**Note:** Studio course.**NEW MEDIA 2900****Social Media and Digital Identity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Students create and polish a cohesive online professional presence for their future careers or creative goals.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent:* New Media 2850 (Social Media and Your Digital Identity) (prior to 2017/2018)

*Lib Ed Req:* Fine Arts and Humanities**NEW MEDIA 3030****3-D Computer Modelling and Animation***Credit hours: 3.00**Contact hours per week: 5-0-0*

Theory and professional practice of 3-D computer modelling, animation, lighting, texturing and rendering.

*Prerequisite(s): Art 2033 and New Media 2030**Lib Ed Req:* Fine Arts and Humanities**Note:** Studio course.**NEW MEDIA 3040****Colour Theory and Digital Photo Manipulation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced design, with emphasis on colour theory, with relation to principles of digital photography and image manipulation.

*Prerequisite(s): New Media 2010**Lib Ed Req:* Fine Arts and Humanities**Note:** Studio course.**NEW MEDIA 3110/CINEMA 3110****Postproduction and Visual Effects***Credit hours: 3.00**Contact hours per week: 4-0-0*

An exploration of post-production methods with an emphasis on narrative editing technique, motion graphics, colour correction, visual effects and compositing.

*Prerequisite(s): Cinema 1000 AND New Media 2030*

*Recommended Background:*  
Cinema 3010

*Equivalent:* New Media 3620 (prior to 2017/2018)

*Lib Ed Req:* Fine Arts and Humanities**Note:** Studio course.**NEW MEDIA 3150****Seminar in New Media Studies***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminar presentation on contemporary issues related to New Media and interactive technology in a critical and theoretical context.

*Prerequisite(s): New Media 1000 AND Second-year standing (a minimum of 30.0 credit hours)**Lib Ed Req:* Fine Arts and Humanities**NEW MEDIA 3250****Media, Advertising, and Consumer Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

An investigation of the various approaches and theoretical ideas concerning modern advertising, media, and consumer society in North America, primarily from a media studies perspective. Other topics include the history of advertising and media and their relation to industrial society, the rise of modern forms of consumption and communication, spectatorship and audience interpretation, advertising standards and regulations, political advertising, gender representation, the role of the consumer, and the creation of consumer desire in contemporary society.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Lib Ed Req:* Fine Arts and Humanities**NEW MEDIA 3300****Theory and Aesthetics of Digital Games***Credit hours: 3.00**Contact hours per week: 4-0-0*

A structural and analytical study of the medium of video and computer-based games that explores digital games for their uniqueness as a medium, but also in relation with other aesthetic artifacts such as cinema. Topics explored include: history and origins, aesthetics and interpretation, genre, interactivity and narrative, character development, game play, mise-en-scene, and social issues such as gender and violence.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)*

*Recommended Background:*  
An intermediate level of experience with video and computer games (console, PC, and/or online)

*Lib Ed Req:* Fine Arts and Humanities**NEW MEDIA 3310****Game Design: Theory and Practice***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to game design fundamentals, principles, and practice. Traditional and contemporary approaches to game design will be explored through an iterative process of game analysis, design, production and critique.

*Prerequisite(s): New Media 3030**Lib Ed Req:* Fine Arts and Humanities**Note:** Studio course.**NEW MEDIA 3380****Programming for Artists***Credit hours: 3.00**Contact hours per week: 4-0-0*

Programming fundamentals for artists and designers. This course will familiarize students with programming as an expressive medium for new media art and design practice.

*Prerequisite(s): New Media 2010**Lib Ed Req:* Fine Arts and Humanities**Note:** Studio course.

**NEW MEDIA 3420****Narrative for New Media***Credit hours: 3.00**Contact hours per week: 3-0-0*

The use of script writing to facilitate content creation for new media with an emphasis on story, character, and visuals. How interplay of form and content affects narrative. Exercises in script writing for animation, film, gaming, and television.

*Prerequisite(s): New Media 2030**OR**Drama 2100**OR**New Media 1000 and 15 university-level courses (a minimum of 45.0 credit hours)**Lib Ed Req: Fine Arts and Humanities***NEW MEDIA 3520****Web Design and Development***Credit hours: 3.00**Contact hours per week: 4-0-0*

Design, aesthetics, and development practices for web-based media.

*Prerequisite(s): One of New Media 2005, Art 3060, or Computer Science 3770**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3550/CINEMA 3550****History of Animation***Credit hours: 3.00**Contact hours per week: 4-0-0*

This course traces the evolution of animation from silent cinema through the 'Golden Age of Animation' to the digital age. Study areas will include the impact of television and other media on animation and focus on some of the important people, studios, and institutions that have contributed to its rich and varied tradition across the globe.

*Prerequisite(s): Cinema 1000 or 15 university-level courses (a minimum of 45.0 credit hours)**Lib Ed Req: Fine Arts and Humanities***NEW MEDIA 3560****Popular Narrative***Credit hours: 3.00**Contact hours per week: 3-0-0*

Through close examinations of various videos, novels, television programs, games, films and comics, the course observes the ways in which narrative form operates in different media. Students will investigate the cultural politics of taste, revealing the stakes involved in separating 'high' narrative art from 'low'.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)**Lib Ed Req: Fine Arts and Humanities***NEW MEDIA 3630****Mobile Application Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to concepts and techniques for designing and developing hybrid mobile application using HTML, CSS, and Javascript that access device features, like geolocation, the accelerometer, and media capture.

*Prerequisite(s): New Media 3520**Recommended Background:**New Media 3380**Equivalent: New Media 3850 Mobile Application Development (prior to 2021/2022)**Lib Ed Req: Fine Arts and Humanities***NEW MEDIA 3640****Character Animation I***Credit hours: 3.00**Contact hours per week: 4-0-0*

Introduces students to character animation based on understanding of the anatomical structure of characters, mechanics of real and animated movement, timing, and animation principles. An important emphasis is placed on understanding the process of character development for 3D animation. Concepts and techniques are explored through short 2D and 3D animation assignments.

*Prerequisite(s): New Media 3030**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3650****Modern Media, War and Propaganda***Credit hours: 3.00**Contact hours per week: 3-0-0*

An investigation of the modern use of popular media and propaganda in times of war. Consideration is given to early forms of modern mass communication, propaganda techniques and how propaganda can be considered both as media hegemony and cultural expression. The course will focus primarily on the period between World War II to the present and on the North American context. It will consider the use of modern media forms (documentary film, animation, advertising/marketing, dramatic film, television, news reporting, interactive entertainment, and social media).

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Equivalent: New Media 3850 (Modern Media, War and Propaganda) (prior to 2016/2017)**Lib Ed Req: Fine Arts and Humanities***NEW MEDIA 3680****Interaction Design***Credit hours: 3.00**Contact hours per week: 4-0-0*

Creation of interface using materials from original sources to produce user-driven projects.

*Prerequisite(s): New Media 3030 AND New Media 3380 AND New Media 3520**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3700****Event and Exhibition Design***Credit hours: 3.00**Contact hours per week: 4-0-0*

Students will learn to design and mount new media group event and exhibition experiences that are relevant to various departmental and student activities.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)**Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

**NEW MEDIA 3710****Creative Foundations For Game Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

Students explore game development software, production workflow, and collaborate in small development teams to design and produce creative interactive products that diverge from conventional game genres. The course focuses on establishing a foundation of creativity, artistry, ingenuity, teamwork, professionalism, and technical proficiency.

*Prerequisite(s): New Media 3310*

*Equivalent: New Media 3850 (Creative Foundations for Game Development) (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3720****The Dynamic Web***Credit hours: 3.00**Contact hours per week: 4-0-0*

This project-based course explores the interactive environments in dynamic web applications. It integrates multiple current technologies and approaches for both commercial and artistic expression.

*Prerequisite(s): New Media 3380 AND New Media 3520*

*Equivalent: New Media 3850 (The Interactive Web: Dynamic Applications and Markup Language) (prior to 2016/2017)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3810****Expanded Cinema***Credit hours: 3.00**Contact hours per week: 4-0-0*

A theoretical and practical investigation of experimental moving image practices from pre- and early cinema to contemporary digital media. Areas of investigation may include, but are not limited to: locative media/gps cinema, site-specific works, installations, projection mapping, augmented/virtual reality, multi-projection, database cinema, and interactive cinema.

*Prerequisite(s): One of New Media 2030, Art 3060, or Art 3061*

*Equivalent: Cinema 3810 (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3820****Information Design***Credit hours: 3.00**Contact hours per week: 4-0-0*

Theory and practice in the design of information from a visual communication perspective.

*Prerequisite(s): New Media 3380 AND New Media 3520*

*Equivalent: New Media 3850 (Information Design) (prior to 2016/2017)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3845****Design Thinking and Creativity***Credit hours: 3.00**Contact hours per week: 4-0-0*

This course investigates the application of design thinking in pursuit of creative, innovative, efficient and responsible solutions to contemporary problems in various educational and career/industry related contexts. Topics include industrial and product design, architecture and urban planning, system and interface design, and design related topics in classical philosophy, contemporary politics, behavior economics, and social psychology.

*Prerequisite(s): 15 university-level courses (a minimum of 45.0 credit hours)*

*Equivalent: New Media 3850 (Design Thinking and Creativity) (prior to 2020/2021)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 3900****Portfolio and Professional Practice***Credit hours: 3.00**Contact hours per week: 3-0-0*

An exploration of portfolio concepts and types. Prepares students in the management of their careers by developing a professional approach to self-promotion and examining ways in which they can pursue opportunities as New Media practitioners. Students will create a comprehensive foundational portfolio through the review, selection, assembly, and refinement of their current body of work, highlighting their technical, creative, professional, and academic abilities.

*Prerequisite(s): 25 university-level courses (a minimum of 75.0 credit hours) AND*

*Admission to the B.F.A. - New Media program*

*Equivalent: New Media 4640 (prior to 2017/2018)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 4420/CINEMA 4420****Screenwriting***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploring the fundamentals of screenwriting and story development through script writing and film analysis. The importance of character and conflict is explored with an emphasis on the scene as the basic unit of the screenplay.

*Prerequisite(s): One of New Media 3420 or Drama 2750*

*Lib Ed Req: Fine Arts and Humanities***NEW MEDIA 4520****Advanced Web Design***Credit hours: 3.00**Contact hours per week: 4-0-0*

Exploration of current and emerging web design technologies, including web graphics and media Application Program Interfaces (APIs) in the production of advanced creative works for the Web.

*Prerequisite(s): New Media 3380 AND New Media 3520*

*Equivalent: New Media 3850 (Advanced Online Design) (prior to 2016/2017)*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.**NEW MEDIA 4620****Character Animation II***Credit hours: 3.00**Contact hours per week: 4-0-0*

Concentration on characterization through animation acting. Emphasis is placed on the relationships between character structural design, expressive animated motion, and character acting. This includes lip sync and phrasing of motion in relation to dialogue, sound, and shot sequencing.

*Prerequisite(s): New Media 3640*

*Lib Ed Req: Fine Arts and Humanities***Note:** Studio course.

**NEW MEDIA 465 I****Internship***Credit hours: 12.00**Other hours per term: Variable*

Supervised internship providing direct involvement in the New Media industry either locally or out of town. Arrangements to be made by the Faculty of Fine Arts internship coordinator.

**Prerequisite(s):** New Media 3900 AND Completion of all course requirements for the B.F.A. - New Media AND A cumulative GPA of 2.00 or higher AND A cumulative GPA of 2.50 or higher on all New Media courses

**Corequisite(s):** New Media 466 I**Grading:** Pass/Fail**Lib Ed Req:** Fine Arts and Humanities**Note:** Students must take New Media 465 I and New Media 466 I in the same term.**NEW MEDIA 466 I****Internship Project***Credit hours: 3.00**Other hours per term: Variable*

The completion of a written/media project to outline, document and assess the student's experience during the internship.

**Prerequisite(s):** New Media 3900 AND Completion of all course requirements for the B.F.A. - New Media AND A cumulative GPA of 2.00 or higher AND A cumulative GPA of 2.50 or higher on all New Media courses

**Corequisite(s):** New Media 465 I**Lib Ed Req:** Fine Arts and Humanities**Note:** Students must take New Media 465 I and New Media 466 I in the same term.**NEW MEDIA 4690****Advanced Studio***Credit hours: 6.00**Contact hours per week: 3-0-0*

Self-directed study pursuing studio practice culminating in a substantive and original new media project.

**Prerequisite(s):** Fourth-year standing (a minimum of 90.0 credit hours) in the B.F.A. - New Media program

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

Intended for New Media students not enrolled in the internship program. Students should be aware that this course consists of the regular weekly contact hours with the Instructor as well as considerable independent work beyond the designated contact hours.

**NEW MEDIA 4710****Video Game Production***Credit hours: 3.00**Contact hours per week: 3-0-0*

Students explore game development software, production workflow, and collaborate in small development teams to design and produce creative interactive products that diverge from conventional game genres. The course focuses on establishing a foundation of creativity, artistry, ingenuity, teamwork, professionalism, and technical proficiency.

**Prerequisite(s):** New Media 3710

**Equivalent:** New Media 4850 (Video Game Production) (prior to 2017/2018)

**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.

Students with majors in Art, Art Studio, Computer Science, or Digital Audio Arts who have relevant applicable experience may be eligible for a prerequisite waiver. Contact instructor for specifics.

**NEW MEDIA 4820/CINEMA 4820****Writing for Comedy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Writing for comedy is serious business.

This course explores the important difference between simply being funny, and comic, which requires an understanding of what comedy is and how it works. It covers how to write comedy for movies, television situation comedies, web series, sketch comedy, and stand up.

**Prerequisite(s):** One of Cinema 3203, New Media 3420, or Drama 2750

**Equivalent:** New Media 4850 (Writing for Comedy) (prior to 2017/2018)

**Lib Ed Req:** Fine Arts and Humanities**NEW MEDIA 4830****Theory and Practice of Motion Capture***Credit hours: 3.00**Contact hours per week: 4-0-0*

Theory and practice of motion capture, motion editing, and motion mapping.

**Prerequisite(s):** New Media 3030**Lib Ed Req:** Fine Arts and Humanities**Note:** Studio course.**NEW MEDIA 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-12*

This is a challenging, work-intensive, studio- or combined studio and research-based course culminating in a substantive and original new media project, and written support paper if applicable. In consultation with the Thesis Supervisor, students will define the parameters of the project and expected outcomes which, upon completion, will be presented in a public forum.

**Prerequisite(s):** Fourth-year standing (a minimum of 90.0 credit hours) AND

A cumulative GPA of 3.30 or higher AND

Completion of the 12 core New Media courses AND

A cumulative GPA of 3.30 or higher in all New Media courses AND

Application to the Department of New Media

**Note:** Studio course.

Other hours are required for mounting and removal of the final exhibition for the course. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**NEW MEDIA 4999****Internship Registration Placeholder***Credit hours: 0.00*

This is a registration placeholder for B.F.A. - New Media students who have completed all other requirements in the New Media program and who are in the process of seeking an internship to complete the degree program. Students may be registered in the placeholder for no more than two terms to encompass a maximum period of 12 months.

**Note:** No fees are assessed for this registration.



**Nursing (NURS)**  
**Faculty of Health Sciences**

**NURSING 1155**

**Concepts of Health for Individuals and Families**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course provides an introduction to the concepts of community and population health, adult learning principles and strategies, the relationship of evidence to nursing practice, and strategies for individual contributions to effective group process. This course continues to explore concepts of health and wellness for individuals and families.

*Prerequisite(s): Nursing 1168*

*Corequisite(s): Nursing 1173*

*Equivalent: Nursing 1120 (prior to 2017/2018)*

*Substantially Similar:*  
*Nursing 1181*

**NURSING 1163**

**Introduction to Nursing Practice**

*Credit hours: 3.00*

*Contact hours per week: 0-0-9*

This first nursing practice course provides the foundation for developing therapeutic and caring relationships with clients and introduces concepts of health assessment and basic nursing skills. Practice occurs in the context of healthy or stable individuals and families across the lifespan in different cultural contexts and settings.

*Prerequisite(s): Admission to the B.N. program*

*Corequisite(s): Nursing 1168*

*Equivalent: Nursing 1220 (prior to 2017/2018)*

*Substantially Similar:*  
*Nursing 1182*

**NURSING 1168**

**Introduction to Nursing and Concepts of Health**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course provides an introduction to the concepts of health and wellness for individuals and families, the role of the nurse, and the use of group process strategies to support self-directed learning.

*Prerequisite(s): Admission to the B.N. program*

*Corequisite(s): Nursing 1163*

*Equivalent: Nursing 1020 (prior to 2017/2018)*

*Substantially Similar:*  
*Nursing 1181*

**NURSING 1173**

**Health and Physical Assessment**

*Credit hours: 3.00*

*Contact hours per week: 0-0-9*

This course includes physical health assessment techniques and the practice of basic nursing skills. Practice occurs in the context of healthy or stable individuals and families across the lifespan in different cultural contexts and settings.

*Prerequisite(s): Nursing 1163 AND*

*Kinesiology 1160*

*(Biology 1160 at Lethbridge College)*

*Corequisite(s): Nursing 1155*

*Equivalent: Nursing 1320 (prior to 2017/2018)*

*Substantially Similar:*  
*Nursing 1182*

**NURSING 1181**

**Nursing Concepts: Individuals and Families**

*Credit hours: 6.00*

*Contact hours per week: 6-0-0*

The history of nursing, role of the nurse in various settings, and nursing as a profession. An introduction to the dimensions of health and wellness of populations across the lifespan in different cultural contexts and settings.

*Prerequisite(s): Admission to the Bachelor of Nursing After Degree program*

*Corequisite(s): Nursing 1182*

*Equivalent: Nursing 1050 (prior to 2017/2018)*

*Substantially Similar:*  
*Nursing 1155;*  
*Nursing 1168*

**NURSING 1182**

**Introduction to Nursing: Assessment and Practice**

*Credit hours: 6.00*

*Contact hours per week: 0-0-12*

Provides the foundation for developing therapeutic relationships and introduces the concepts of health assessment and basic nursing skills. Learning opportunities in the classroom, lab, and practice environment. Practice occurs in the context of healthy or stable individuals and families across the lifespan in different cultural contexts and settings.

*Prerequisite(s): Admission to the Bachelor of Nursing After Degree program*

*Corequisite(s): Nursing 1181*

*Equivalent: Nursing 1150 (prior to 2017/2018)*

*Substantially Similar:*  
*Nursing 1163;*  
*Nursing 1173*

**NURSING 1400**

**Becoming a Nurse**

*Credit hours: 2.00*

*Contact hours per week: 3-0-0*

An exploration of the disciplinary knowledge base of nursing including an emphasis on multiple ways of knowing that inform the art and science of nursing. Includes an examination of the foundational concepts of nursing as a self-regulating profession, and an introduction to self as a member of the professional nursing community.

*Prerequisite(s): Admission to the B.N. program*

*Corequisite(s): Nursing 1410 AND Nursing 1420*

**NURSING 1410**

**Personal Health and Wholeness**

*Credit hours: 2.00*

*Contact hours per week: 3-1-0*

Critical exploration of concepts of health and wholeness from a personal perspective and as an emerging professional. Exploration of principles, practices, and issues related to health, with a particular emphasis on building self-awareness and resilience. Incorporates further knowledge development and integration in the lab environment with an emphasis on learning to provide safe, high-quality nursing care.

*Prerequisite(s): Admission to the B.N. program*

*Corequisite(s): Nursing 1400 AND Nursing 1420*

*Substantially Similar:*  
*Health Sciences 1010*

**NURSING 1420**

**Intersectionality and Health**

*Credit hours: 2.00*

*Contact hours per week: 3-0-0*

An introduction to socio-cultural perspectives on health, healing, and wholeness, founded upon an exploration of diverse identities, health beliefs, and practices. Focus is on intersectionality, cultural safety, and humility, and a particular emphasis on Blackfoot ways of knowing and perspectives on health.

*Prerequisite(s): Admission to the B.N. program*

*Corequisite(s): Nursing 1400 AND Nursing 1410*

**NURSING 1500****Caring Communication***Credit hours: 2.00**Contact hours per week: 3-0-0*

An introduction to caring and effective communication to enhance relational practice with clients and families, and within the inter-professional team. Includes therapeutic use of self, and effective team functioning and decision making.

*Prerequisite(s):* Nursing 1400 AND Nursing 1410 AND Nursing 1420

*Corequisite(s):* Nursing 1521 AND Nursing 1522

**NURSING 1521****Assessing Health***Credit hours: 2.00**Contact hours per week: 3-2-0*

Provides the theoretical foundations for assessing health and wellness, and delivering basic nursing care to support health, healing, and wholeness. Includes gathering and interpreting subjective and objective client information for the purposes of providing care to adults.

*Prerequisite(s):* Nursing 1400 AND Nursing 1410 AND Nursing 1420

*Corequisite(s):* Nursing 1500 AND Nursing 1522

**NURSING 1522****Introduction to Praxis***Credit hours: 2.00**Other hours per term: 0-18-48*

Application of foundational nursing knowledge in praxis with adults in a variety of lab and practice settings, with an emphasis on providing safe, high quality nursing care. Includes focus on the integration of caring communication while practicing assessment and basic nursing skills.

*Prerequisite(s):* Nursing 1400 AND Nursing 1410 AND Nursing 1420

*Corequisite(s):* Nursing 1500 AND Nursing 1521

*Grading:* Pass/Fail

**NURSING 1600****Nursing and Intersectionality***Credit hours: 3.00**Contact hours per week: 3-0-0*

Critical exploration of the disciplinary knowledge base of nursing, including diverse concepts of health and wholeness. Focuses on intersectionality, cultural safety and humility, and a particular emphasis on Blackfoot ways of knowing and perspectives on health. An introduction to foundational concepts of nursing as a self-regulating profession.

*Prerequisite(s):* Admission to the B.N. After Degree program

*Corequisite(s):* Nursing 1522 AND Nursing 1610

**NURSING 1610****Assessing Health and Wholeness***Credit hours: 3.00**Contact hours per week: 3-2-0*

Introduction to caring, persuasive communication for effective relational practice in assessing health and wellness, and delivering basic nursing care to support health, healing, and wholeness. Includes applying a broad suite of communication skills to gathering and interpreting subjective and objective client information for the purposes of collaborating with clients and members of the inter-professional team.

*Prerequisite(s):* Admission to the B.N. After Degree program

*Corequisite(s):* Nursing 1522 and Nursing 1600

**NURSING 2254****Maternity and Pediatric Nursing***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course focuses on the experiences of child-bearing and child-rearing families with varied cultural backgrounds in diverse geographical settings. It integrates concepts of health promotion, illness prevention, epidemiology, pathophysiology, and therapeutics.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program  
OR  
Completion of the first two terms in the B.N. After Degree program

*Equivalent:* Nursing 2125 (prior to 2017/2018)

**NURSING 2263****Medical-Surgical Nursing Practice***Credit hours: 5.00**Contact hours per week: 0-0-15*

Explores increasingly complex nursing skills and provision of basic nursing care for adults with acute and chronic health challenges with varied cultural backgrounds. Students will have the opportunity to apply pharmacology, pathophysiology, critical thinking, and clinical judgment to care of adults experiencing illness in acute care settings.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program

*Corequisite(s):* Nursing 2268 AND Nursing 2279

*Equivalent:* Nursing 2150 (prior to 2017/2018)

*Grading:* Pass/Fail

**NURSING 2268****Disruptions in Health I***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides an introduction to acute and chronic health challenges for adults with varied cultural backgrounds in diverse geographical settings. It integrates concepts of gerontology, health promotion, illness prevention, epidemiology, pathophysiology, and therapeutics.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program  
OR

Completion of the first term in the B.N. After Degree program

*Corequisite(s):* Nursing 2263 AND Nursing 2279

*Equivalent:* Nursing 2020 (prior to 2017/2018)

**NURSING 2269****Rural Nursing Practice***Credit hours: 5.00**Contact hours per week: 0-0-15*

Explores increasingly complex nursing skills and provision of basic nursing care for adults with acute and chronic health challenges with varied cultural backgrounds. Students will have the opportunity to apply pharmacology, pathophysiology, critical thinking and clinical judgement to care of adults experiencing illness in rural acute care settings.

*Prerequisite(s):* Completion of the first term of the B.N. After Degree program

*Corequisite(s):* Nursing 2268

*Substantially Similar:*

Nursing 2150 (prior to 2017/2018)

*Grading:* Pass/Fail

**NURSING 2279****Nursing Issues and Health Care in Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is an exploration and examination of professional nursing practice concepts and issues. The focus will be on historical and contemporary roles as well as ethical and legal responsibilities of the Registered Nurse within the context of the nursing profession and the health care system. Topics include the application of theory to practice, multidisciplinary health care team issues, and professional association and union roles.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program

*Corequisite(s):* Nursing 2268 AND Nursing 2263

*Equivalent:* Nursing 2135 (prior to 2017/2018)

**NURSING 2290****Pharmacology and Applied Therapeutics***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course provides an introduction to integrative therapeutic modalities including conventional (i.e., allopathic), alternative, and complementary therapies used in health care and the pathophysiologic, psychologic, energetic, and spiritual basis for these therapies. The nurse's role in promoting quality of life through appropriate use of various treatment modalities and dealing with implications and effects is explored.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program

OR

Completion of the first term in the B.N. After Degree program

*Equivalent:* Nursing 2260 (prior to 2017/2018)

**NURSING 2293****Maternity and Pediatric Nursing Practice***Credit hours: 5.00**Contact hours per week: 0-0-15*

Explores increasingly complex nursing skills and provision of basic nursing care for women, children, and families from various cultural backgrounds. Students will have the opportunity to apply pharmacology, pathophysiology, critical thinking, and clinical judgment to the care of women through the antenatal, labour, delivery, postpartum period and to children experiencing illness in an acute care setting.

*Prerequisite(s):* Nursing 2263

*Corequisite(s):* Nursing 2254

*Equivalent:* Nursing 2255 (prior to 2017/2018)

*Grading:* Pass/Fail

**NURSING 2300****Evidence and Praxis***Credit hours: 3.00**Contact hours per week: 3-0-0*

An analysis of how multiple ways of knowing and sources of evidence inform nursing practice. Includes learning to access, assess, critique, and incorporate different forms of evidence, with an emphasis on research utilization in nursing practice and the meaningful incorporation of primary and filtered research evidence.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program

*Corequisite(s):* Nursing 2322

**NURSING 2321****Health of Persons***Credit hours: 6.00**Contact hours per week: 6-2-0*

An examination of chronic and acute health challenges experienced across the lifespan. Incorporates fundamental knowledge of anatomy, pathophysiology, pharmacology, microbiology, and human development into nursing responses to the lived experiences of these challenges, with an emphasis on person centered care. Includes knowledge development and integration in the lab environment with an emphasis on learning to provide safe, high quality nursing care.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program

OR

Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 2322

**NURSING 2322****Praxis with Persons***Credit hours: 5.00**Contact hours per week: 0-0-16*

Building upon a growing knowledge base in holistic health assessment, this praxis opportunity focuses on supporting health, healing, and wholeness at all stages of life, through relational practice, with a focus on the person as the unit of care. Placement experiences in sub-acute and/or post-acute and rural settings will facilitate opportunities for students to expand their view beyond urban hospital practice and participate in person centred care within a multidisciplinary team.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program

*Corequisite(s):* Nursing 2321

*Grading:* Pass/Fail

**NURSING 2421****Health of Families***Credit hours: 6.00**Contact hours per week: 6-2-0*

An examination of chronic and acute health challenges experienced across the lifespan. Incorporates fundamental knowledge of anatomy, pathophysiology, pharmacology, microbiology, and human development into nursing responses to the lived experiences of these challenges, with an emphasis on family theory and contemporary models of care. Includes knowledge development and integration in the lab environment with an emphasis on learning to provide safe, high quality nursing care.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program  
OR

Nursing 1522 AND  
Nursing 1600 AND  
Nursing 1610

*Corequisite(s):* Nursing 2422

**NURSING 2422****Praxis with Families***Credit hours: 5.00**Contact hours per week: 0-0-16*

Building upon a growing knowledge base in holistic health assessment, this praxis opportunity focuses on supporting health, healing and wholeness at all stages of life, through relational practice, with a focus on family as the unit of care. A variety of placement experiences will facilitate opportunities for students to expand their view beyond hospital practice and participate in family-centred care within a multidisciplinary team.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. program  
OR

Nursing 1522 AND  
Nursing 1600 AND  
Nursing 1610

*Corequisite(s):* Nursing 2421

*Grading:* Pass/Fail

**NURSING 3020****Community Health Nursing***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of community health nursing theoretical foundations, values, and principles, using the Canadian Community Health Nursing Standards of Practice as a framework to explore health promotion, prevention/protection, and maintenance/restoration. Explores concepts such as health equity, social justice, and the social determinants of health.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR

Completion of the first three terms in the B.N. After Degree program

*Corequisite(s):* Nursing 4520

*Mutually Exclusive:*

Addictions Counselling 3002;  
Health Sciences 3002

*Substantially Similar:*

Addictions Counselling 3002;  
Health Sciences 3002

**NURSING 3021****Community and Population Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to community as client and an exploration of health as a socio-ecological concept. Focus is on population health promotion with the general public and groups experiencing inequities. Incorporates the social determinants of health, and principles of social justice, primary healthcare, and community development.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR

Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 3022 AND  
Nursing 3100 or  
Nursing 3610

*Mutually Exclusive:*

Addictions Counselling 3002;  
Health Sciences 3002

*Substantially Similar:*

Addictions Counselling 3002;  
Health Sciences 3002

**NURSING 3022****Praxis in Health Promotion***Credit hours: 6.00**Contact hours per week: 0-0-16*

A praxis opportunity to utilize a strengths-based approach with populations in their communities where they live, work, grow, and play. Considering diversity and health inequities, and addressing determinants of health, students will enact the principles of primary health care and implement strategies for health promotion.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR

Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 3021 AND  
Nursing 3100 or  
Nursing 3610

*Grading:* Pass/Fail

**NURSING 3100****Leadership and Change***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the individual and collective professional responsibilities of nurses to lead, advocate for, and enact positive change at the inter-professional practice team level, and at organizational and public policy levels. Integrates change theory, advocacy, social justice, equity, cultural safety, relational ethics, communication for change, and the dynamics of power and influence. Includes an exploration of theories, techniques, and strategies for facilitating health change with individuals, creating cultures of practice excellence, and collaboratively leading change towards a preferred future.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program

*Corequisite(s):* Nursing 3021 AND  
Nursing 3022

**NURSING 3121****Mental Health and Addiction***Credit hours: 3.00**Contact hours per week: 3-2-0*

An examination of acute and chronic mental health conditions affecting the lives of individuals. Integrates knowledge of pathophysiology, neurology, and pharmacology with nursing responses to support persons living with these health challenges. Includes a focus on intersectionality, addictions, and alternative perspectives to understanding mental health and addictions. Incorporates further knowledge development and integration in the lab environment with an emphasis on providing safe, high quality nursing care, a continued focus on integration of knowledge around pharmacology, applied therapeutics, and practice of relevant skills, nursing responses.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR  
Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 3122 AND  
Nursing 3200 or  
Nursing 4622

**NURSING 3122****Praxis in Mental Health***Credit hours: 6.00**Contact hours per week: 0-0-16*

Engaging in relational practice with individuals experiencing mental health and addiction challenges in acute, rural, and community settings. Emphasis is on person centered care and inter-professional collaboration in meeting the complex needs of individuals.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program

*Corequisite(s):* Nursing 3121 AND  
Nursing 3200

*Grading:* Pass/Fail

**NURSING 3125****Mental Health Nursing***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course focuses on the experiences of individuals, families and communities with increasingly complex mental health challenges across the lifespan.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR  
Completion of the first two terms in the B.N. After Degree program

*Corequisite(s):* One of Nursing 4510 or  
Nursing 4511

**NURSING 3135****Leadership in Nursing***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is an examination of the social, economic, ethical and political issues and policies influencing the nursing profession and the health care system. Topics include scope of practice, legal liability, nursing work life, change strategies, leadership/management concepts, and individual responsibility for promoting effective change.

*Prerequisite(s):* Completion of the first five terms in the B.N. program  
OR  
Completion of the first three terms in the B.N. After Degree program

*Corequisite(s):* One of Nursing 3020,  
Nursing 3125, or  
Nursing 3230

**NURSING 3200****Praxis and the Digital Age***Credit hours: 3.00**Contact hours per week: 3-0-0*

An exploration of nursing practice in digital health. Includes an examination of the implications for nursing of: factors that affect the ability to access and use digital technologies, virtual inter-professional health care, digital health coaching and self-care support for chronic conditions, artificial intelligence, the use of big data, social media and marketing to support and promote health, and other emerging trends in digital health.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR  
Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 3121 AND  
Nursing 3122

**NURSING 3230****Disruptions in Health II***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course focuses on the experiences of individuals and families with increasingly complex acute and chronic health challenges across the lifespan.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR  
Completion of the first three terms in the B.N. After Degree program

*Corequisite(s):* One of Nursing 4530 or  
Nursing 4531

**NURSING 3300****Nursing and Global Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the epidemiology of health and illness at a global level. Includes an exploration of nursing leadership in global health and collaborative action across disciplines in addressing current and emerging health challenges facing our world.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program

*Corequisite(s):* Nursing 3321 AND  
Nursing 3322

**NURSING 3321****Acute Health Disruptions***Credit hours: 3.00**Contact hours per week: 3-2-0*

An examination of acute and urgent health challenges experienced by adults. Integrates knowledge of pathophysiology, pharmacology, and microbiology into nursing responses to the lived experiences of these challenges with a particular emphasis on nursing management of complex patient care situations. Includes further knowledge development and integration in the lab environment with an emphasis on providing safe, high-quality nursing care.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR  
Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 3300 AND Nursing 3322

**NURSING 3322****Praxis in Acuity***Credit hours: 6.00**Contact hours per week: 0-0-16*

This praxis opportunity will focus on the integration of theoretical and practical knowledge from the health sciences, social sciences, and nursing practice to guide person-centered and evidence-informed care of adults experiencing acute health challenges. Emphasis is on prioritization and organization, critical thinking, clinical reasoning, and judgment.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR  
Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 3300 AND Nursing 3321

*Grading:* Pass/Fail

**NURSING 3360****Research in Nursing***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is designed to enhance the student's abilities to comprehend, critique and use research in professional practice.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) in the Faculty of Health Sciences

**NURSING 3610****Nursing Leadership and Global Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

An exploration of nursing leadership in global health and collaborative action across disciplines in addressing current and emerging health trends and challenges facing our world, and advocacy to reduce global health inequities and the global burden of disease. Integrates elements of change theory, relational ethics, social justice, and the dynamics of power and influence, as well as examines the epidemiology of health and illness at global level.

*Prerequisite(s):* Completion of all Year One requirements in the B.N. After Degree program

*Corequisite(s):* Nursing 3021 AND Nursing 3022

**NURSING 3620****Evidence and Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

An analysis of how multiple ways of knowing and sources of evidence inform nursing practice and the meaningful incorporation of primary and filtered research evidence. Includes learning to critique and incorporate different forms of evidence, with an emphasis on research utilization in nursing practice. Incorporates evidence relating to how technology influences health and professional practice.

*Prerequisite(s):* Completion of all requirements in the first four terms of the B.N. After Degree program.

*Corequisite(s):* Nursing 3321 and Nursing 3322

**NURSING 3622****Praxis with Persons***Credit hours: 5.00**Other hours per term: 0-0-152*

Building upon a growing knowledge base in holistic health assessment, this praxis opportunity will focus on supporting health, healing, and wholeness through relational practice with persons in both rural and sub-acute urban settings, with a focus on persons as the unit of care.

*Prerequisite(s):* Completion of all requirements in the first two terms of the B.N. After Degree program

*Corequisite(s):* Nursing 2321

*Grading:* Pass/Fail

**NURSING 4135****Global Health Issues and Trends***Credit hours: 3.00**Contact hours per week: 3-0-0*

Students will be offered an opportunity to examine psycho-social-spiritual, economic, ethical and political issues influencing health, illness, and healing within both Canadian and global health care arenas. Evidence-based change strategies (e.g., political, marketing, leadership) that address these issues will be explored. Students will identify possible solutions to promote effective and efficient nursing care delivery to clients, families and communities.

*Prerequisite(s):* Completion of all Year Three requirements in the B.N. program  
OR  
Completion of the first four terms in the B.N. After Degree program

*Corequisite(s):* One of Nursing 4510, Nursing 4520, or Nursing 4530

**NURSING 4510****Mental Health Nursing Practice***Credit hours: 6.00**Other hours per term: 0-0-208*

In this course students initiate, deliver, and evaluate care for individuals, families and populations with acute and chronic health challenges in community and institutional settings.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program

*Corequisite(s):* Nursing 3125

*Substantially Similar:* Nursing 4511

*Grading:* Pass/Fail

**NURSING 4511****Mental Health Nursing Practice***Credit hours: 5.00**Other hours per term: 0-0-152*

In this course students initiate, deliver, and evaluate care for individuals, families and populations with acute and chronic health challenges in community and institutional settings.

*Prerequisite(s):* Completion of the first two terms in the B.N. After Degree program

*Corequisite(s):* Nursing 3125

*Substantially Similar:* Nursing 4510

*Grading:* Pass/Fail

**NURSING 4520****Community Health Nursing Practice***Credit hours: 6.00**Other hours per term: 0-0-208*

In this course students advocate and assume responsibility for holistic care of individuals, families and populations with acute and chronic health challenges in community and institutional settings.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program  
OR  
Completion of the first three terms in the B.N. After Degree program

*Corequisite(s):* Nursing 3020*Grading: Pass/Fail***NURSING 4530****Rural Nursing Practice***Credit hours: 6.00**Other hours per term: 0-0-208*

This practice course offers students more independent and advanced nursing experience in increasingly complex clinical learning situations. Students work collaboratively with individuals, families and populations who have acute and chronic health challenges in community and institutional settings.

*Prerequisite(s):* Completion of all Year Two requirements in the B.N. program

*Corequisite(s):* Nursing 3230

*Substantially Similar:*  
Nursing 4531

*Grading: Pass/Fail***NURSING 4531****Medical-Surgical Nursing Practice***Credit hours: 6.00**Other hours per term: 0-0-208*

This practice course offers students more independent and advanced nursing experience in increasingly complex clinical learning situations. Students work collaboratively with individuals, families and populations who have acute and chronic health challenges in community and institutional settings.

*Prerequisite(s):* Completion of the first three terms of the B.N. After Degree program

*Corequisite(s):* Nursing 3230

*Substantially Similar:*  
Nursing 4530

*Grading: Pass/Fail***NURSING 4622****Praxis in Mental Health***Credit hours: 5.00*

Engaging in relational practice with individuals experiencing mental health and addiction challenges in acute, rural, and community settings. Emphasis is on client-engaged care and inter-professional collaboration in meeting the complex needs of individuals.

*Prerequisite(s):* Completion of all requirements in the first two terms of the B.N. After Degree program

*Corequisite(s):* Nursing 3121**NURSING 4750****Senior Preceptorship***Credit hours: 15.00**Other hours per term: 0-0-382*

A 10-week consolidated, pre-professional, clinical nursing course in a wide variety of community, institutional and cultural settings. The student's practicum schedule is organized according to the assigned schedule of the clinical preceptor. By the end of the course, the student is expected to demonstrate independent clinical decision making and carry a clinical work assignment appropriate for a beginning practitioner with minimal guidance.

*Prerequisite(s):* Completion of all course work in the first seven terms of the B.N. program

OR

Completion of the first five terms in the B.N. After Degree program

*Grading: Pass/Fail***NURSING 4922****Professional Preceptorship***Credit hours: 15.00**Other hours per term: 12-0-350*

A minimum ten-week, consolidated 350-hour preceptored clinical practicum to integrate and consolidate nursing knowledge in a selected practice area. Additionally, an online, asynchronous discussion forum that supports students' engagement around professional nursing practice issues, and connection to resources that will support their professional transition.

*Prerequisite(s):* Completion of all course work in the first seven terms of the B.N. program

OR

Completion of all course work in the first five terms of the B.N. After Degree program

*Grading: Pass/Fail***NURSING 9999****Collaborative Registration Placeholder***Credit hours: 0.00*

This is a placeholder registration for students admitted to the B.N. program who are studying at an associated college.

**Note:** No fees are assessed for this registration.

**Philosophy****(PHIL)****Faculty of Arts and Science****PHILOSOPHY 1000****Introduction to Philosophy***Credit hours: 3.00**Contact hours per week: 3-0-0*

The branches of philosophy study humanity's ultimate questions. Metaphysics considers what is truly real. Does God exist? Is there free will? How real is the past or the future? Epistemology asks whether answers to such questions can be known. Ethics investigates rights and duties, vices and virtues, and tries to define the good life for humans. Social and political philosophy study and assess human communities.

*Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 2000****Studies in Philosophy (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

The Philosophy 2000 series makes available to students special courses that are not offered regularly. Some of these courses reflect the research interests of members of the faculty, and thus offer students an early glimpse of how research is done. In other cases, the course could be a response to student interest.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

**PHILOSOPHY 2001****Introduction to Ethics***Credit hours: 3.00**Contact hours per week: 3-0-0*

In this course, we will critically consider several main theories concerning right and wrong action, good and bad states of affairs, and virtuous and vicious character.

*Recommended Background:*  
Philosophy 1000

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 2002****Belief, Truth, and Paradox***Credit hours: 3.00**Contact hours per week: 3-0-0*

The course serves as a general introduction to issues in metaphysics and epistemology. The central focus is on how a perceiving subject can acquire knowledge of the world in which it finds itself. Topics may include perception, belief, truth, knowledge, skepticism, realism and anti-realism, and the relation between minds and matter. The connections between these issues will enable the investigation of a number of interesting and perplexing paradoxes.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 2010****Ancient Philosophy***Credit hours: 3.00**Contact hours per week: 3-0-0*

We study the first thousand years of Western philosophy and its importance today, focusing on Plato and Aristotle, the most influential thinkers of all time. Includes the Presocratics (Thales, Pythagoras, Heraclitus, Parmenides, Zeno) and their relations to Greek mythology; the Sophists (Protagoras, Gorgias); Cynics, Epicureans, Stoics, Plotinus and their influence on early Christianity.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 2030****17th-Century Philosophy: Descartes to Leibniz***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seventeenth-Century Western philosophy (like science) challenged ideas that had dominated thought for centuries. Philosophers set out to rebuild our view of the world from the ground up. A new philosophy of human nature and the world emerged, becoming what we now call the modern world view. Descartes, Hobbes, Spinoza, Locke and Leibniz.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 2150****Philosophy of Art***Credit hours: 3.00**Contact hours per week: 3-0-0*

The course examines major philosophical views of art and literature. Topics may include the concept of art, the ontology of artworks, aesthetic properties, the interpretation and value of art, and fictionality. Philosophical puzzles specific to particular art forms, such as music and literature, may also be addressed.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 2210****Philosophy of Religion***Credit hours: 3.00**Contact hours per week: 3-0-0*

We make use of analytical resources found in present-day cosmology, formal semantics, decision theory and other branches of natural science. Issues to be examined usually include God's nature, the problem of evil, the rationality and prudence of religious belief and the alleged conflict between religion and science.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 2220****Philosophy of Mind***Credit hours: 3.00**Contact hours per week: 3-0-0*

We probe the nature of mind (soul, consciousness), cognition, perception, emotion, voluntary action, religious beliefs about the mind, and unconscious mental states; and we compare ideas to language, personal to bodily identity and explanations in 'folk' psychology to neuroscience.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 2233****Philosophy and the World View of Science: Earth and Life Sciences***Credit hours: 3.00**Contact hours per week: 3-0-0*

A philosophical approach to the world view of contemporary earth and life sciences. We discuss the origins of modern geology and the modern synthesis in biology of genetics and evolution by natural selection. Issues include the status of evidence about the past, evolution versus creationism and the idea of fitness.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Science***PHILOSOPHY 2234****Philosophy and the World View of Science: Space, Time and Matter***Credit hours: 3.00**Contact hours per week: 3-0-0*

Philosophical controversies in the world view of contemporary physical science, including the special and general theories of relativity, quantum mechanics and cosmology. Issues include reductionism, the nature of scientific theories, evidence for theories, different theories of space and time, causality, scientific revolutions and the status of theoretical entities.

*Prerequisite(s): Philosophy 1000**Recommended Background:*

*One of Science 30 or a 1000-level course (3.0 credit hours) in Mathematics or Science*

*Lib Ed Req: Science***PHILOSOPHY 2236****Environmental Philosophy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Is there really an environmental crisis? Do we even know what the environment is? How can we resolve conflicts between environmental and economic priorities? Do we have ethical obligations to the environment or to future generations? Using techniques of philosophical analysis, students are introduced to key issues in this growing and important field of applied philosophy.

*Recommended Background:**Philosophy 1000**Lib Ed Req: Fine Arts and Humanities***PHILOSOPHY 3000****Studies in Philosophy (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

The Philosophy 3000 series has the same function as the Philosophy 2000 series but at levels of study appropriate to more senior students.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*



**PHILOSOPHY 3260****Metaphysics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Metaphysics is the attempt to construct the biggest possible picture of the world. Students will be introduced to such questions as these: Is God ultimately real? What is time? Do we have free will? Are there other possible worlds? Can we understand the relation between mind and matter? Do such questions even have answers?

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*  
*Philosophy 2002*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3270****Theory of Knowledge***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to epistemology, focusing on the rational justification of belief, the nature of knowledge and learning (ordinary, mathematical and scientific), perception and the use and abuse of skepticism. Special topics, including epistemology of religion, scientific method and mathematics, may also be taken up.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*  
*Philosophy 2002 AND*  
*Logic 2003*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3280****Philosophy of Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

The nature of language and representation in general and their emphasis in 20th-Century philosophy. The reality of symbolic forms, relations between language and thought, reality, communication, translation, human action and culture, meaningfulness, nonsense, truth and falsehood. Thinkers discussed include Peirce, Austin, Quine, Chomsky and their followers.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*  
*Logic 2003 AND*  
*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3350****Analytic Philosophy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Today's analytic philosophy is marked by the centrality of the philosophy of language, the rise of naturalized epistemology, reductionist theories of the mind, evolutionary ethics, and feminist challenges to traditional ways of philosophizing. By tracing these developments we will see what is fuelling philosophy at the turn-of-the-millennium.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*  
*Philosophy 2002 AND*  
*Logic 2003*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3401****Social and Political Philosophy***Credit hours: 3.00**Contact hours per week: 3-0-0*

A critical examination of the concepts that lie at the core of our social commitments and the political institutions that support them. What, if anything, do we owe to the State? What laws, if any, may we, or even must we, disobey? What justifies private property? Why do we value liberty and equality? What do we do when liberty and equality conflict in cases such as affirmative action or pornography?

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*  
*Philosophy 2001*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3402****Biomedical Ethics***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course examines a number of difficult moral issues lying at the intersection of health, medicine, science and social policy. Issues to be examined may include euthanasia, abortion, genetic engineering, informed consent, patient competence, medical experimentation and the right of all citizens to an adequate and equal level of health care.

*Prerequisite(s): One of Philosophy 1000, a 2000-level course (3.0 credit hours) in Philosophy, or Admission to the Post-Diploma B.A. or B.Sc. in Agricultural Studies*

*Recommended Background:*  
*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3404****Philosophy of Law***Credit hours: 3.00**Contact hours per week: 3-0-0*

We study historical and contemporary controversies about analytical, normative and historical jurisprudence: the reality of legitimacy laws and legal systems; adversarial and inquisitorial systems, common law and civil law systems, branches of law (criminal, civil, tort, contract, administrative, etc.), law and morality, liability and entitlement, defenses and rights and duties.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*  
*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3409****18th-Century Philosophy: Leibniz to Kant***Credit hours: 3.00**Contact hours per week: 3-0-0*

Does our knowledge of the world come chiefly from reason, or from the senses? In the 18th Century, Leibniz, Berkeley, Hume and Kant focused on the workings of perception, the relation between mind and body, and the foundations of knowledge. The tension between reason and experience that they explored continues to drive work on these problems today, influencing (for example) debates over nature versus nurture in human behaviour.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*

*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3410****Advanced Ethics***Credit hours: 3.00**Contact hours per week: 3-0-0*

How is knowledge about morality possible? Can reason and argument really tell us how we ought to act? And even if we can sometimes know how we ought to act, can morality act as a decisive check on self-interest? This course will examine current accounts of moral reasoning as well as deeper questions about what moral values are.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*

*Philosophy 2001*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3411****Game Theory in Philosophy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Philosophers, mathematicians and economists are developing a powerful tool for resolving problems in human interaction - game theory. Using the techniques of philosophical analysis, we will study this tool for its insights into disciplines as diverse as politics, economics, ethics, military strategy, psychology and evolutionary biology.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*

*Logic 2003 AND*

*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3412****Philosophy of Science***Credit hours: 3.00**Contact hours per week: 3-0-0*

Our modern world has been shaped by science, and it is important for all of us to reflect on its meaning and justification. In this course we examine questions such as: How can we tell the difference between science and pseudo-science? Is science literally true? Is science biased by class, culture or gender? What really happens during a scientific revolution? Is there really such a thing as scientific progress? How do scientists test their theories? What factors threaten scientific progress? Are there limits to science? Can we have too much science, or be too much influenced by it? Which scientific developments are philosophically important? This course is accessible to students who are not specialists in science but who have an open mind to new concepts.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*

*Logic 2003 AND*

*Philosophy 2002 and/or one course designated 'Science'*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3413****Feminist Philosophy***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of feminist critiques of traditional approaches to some central areas of philosophy, which may include epistemology, philosophy of science, ethics and political philosophy, and the history of philosophy. Central philosophical issues will include feminist ways of thinking about knowledge, objectivity and value.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*

*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3420****Wittgenstein***Credit hours: 3.00**Contact hours per week: 3-0-0*

One of the most important and original philosophers of the 20th Century, Ludwig Wittgenstein influenced philosophical movements (Logical Positivism, Linguistic Philosophy, Logical Behaviourism) and our very conception of the nature of Philosophy. Beginning with the *Tractatus Logico-Philosophicus* (1921) and its picture theory of meaning, this course examines Wittgenstein's Tractarian integration of logic, language, representation, and reality. The course then examines Wittgenstein's intermediate (1929-34) criticism of the *Tractatus* and his unorthodox views on scientific hypotheses and the illusion of mathematical truth, culminating in an examination of Wittgenstein's later discussions (primarily in *Philosophical Investigations*) of rules, rule-following, language-games, private languages, mind, and certainty.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*

*Logic 2003 AND*

*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 3450****Philosophy of War***Credit hours: 3.00**Contact hours per week: 3-0-0*

Though war occupies but a tiny fraction of our lives, its implications influence our every moment. In this course we consider practical questions about the costs and benefits of war, ethical questions about deterrent threats, terrorism, and having and using nuclear weapons, social and psychological questions about the causes of war and the nature of military institutions, and strategic/game theoretical puzzles.

*Prerequisite(s): One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy*

*Recommended Background:*

*At least one 2000-level course (3.0 credit hours) in Philosophy*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 4000****Studies in Philosophy (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

The Philosophy 4000 series has the same functions as the Philosophy 2000 and Philosophy 3000 series but at levels of study appropriate to senior philosophy majors or other students with a strong philosophical background.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

**PHILOSOPHY 4404****Advanced Philosophy of Law***Credit hours: 3.00**Contact hours per week: 3-0-0*

Topics in philosophy of law, which may include philosophy of constitutional law; legal reasoning and legal interpretation; civil and uncivil disobedience; the rule of law.

*Prerequisite(s): Philosophy 3404*

*Lib Ed Req: Fine Arts and Humanities*

**PHILOSOPHY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course. This research will be presented in a report in the form of an Undergraduate Thesis which will be made publicly available and which will be the subject of an oral defence.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND*

*A cumulative GPA of 3.30 or higher AND*

*A cumulative GPA of 3.50 or higher on all Philosophy and Logic courses*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Physical Activity****(PHAC)****Faculty of Arts and Science****PHYSICAL ACTIVITY 2130****Educational Dance***Credit hours: 1.50**Contact hours per week: 0-3-0*

Development of a repertoire of dominant movement patterns leading to basic concepts, skills and fundamentals in educational dance.

**PHYSICAL ACTIVITY 2135****Educational Gymnastics***Credit hours: 1.50**Contact hours per week: 0-3-0*

Development of a repertoire of dominant movement patterns leading to basic concepts, skills and fundamentals in educational gymnastics.

**PHYSICAL ACTIVITY 3020****Movement Literacy: Upper Body Actions***Credit hours: 3.00**Contact hours per week: 3-0-0*

Observation, analysis, acquisition and correction of basic movement patterns including striking, throwing, catching, and other upper body actions that are part of sport and activities of daily living.

**PHYSICAL ACTIVITY 3030****Movement Literacy: Lower Body Actions***Credit hours: 3.00**Contact hours per week: 3-0-0*

Observation, analysis, acquisition, and correction of basic movement patterns including running, jumping, kicking, and other lower body actions that are part of sport and activities of daily living.

**PHYSICAL ACTIVITY 3040****Resistance Training for Health and Performance***Credit hours: 3.00**Contact hours per week: 3-0-0*

Movement-based approach in the application of principles and methods used to develop the components of fitness through resistance training.

**PHYSICAL ACTIVITY 3050****Conditioning for Cardiovascular Health and Performance***Credit hours: 3.00**Contact hours per week: 3-0-0*

Assessment of cardiovascular fitness and development of training programs through exposure to a wide range of physical activity environments.

**PHYSICAL ACTIVITY 3060****Adapting Physical Activity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Current trends, theory, and practice in adapted physical activity. Emphasis is placed on gaining instructional and leadership skills in physical activity, fitness, and sport programs for individuals requiring activity adaptations.

**PHYSICAL ACTIVITY 3070****Structure and Strategy of Games***Credit hours: 3.00**Contact hours per week: 3-0-0*

Strategic and tactical principles used across various categories of games along with models of understanding that allow for the transfer of strategic knowledge between game settings.

**Physics (PHYS)**  
**Faculty of Arts and Science**

**PHYSICS 1000**

**Introduction to Physics I**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

*Other hours per term: 0-0-6*

Calculus-based introduction to mechanics and modern physics. Concepts and problem-solving skills are emphasized. Material studied: kinematics and mechanics, and a brief introduction to nuclear physics and particle physics.

*Prerequisite(s):* Physics 30 AND One of Mathematics 30-I, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520

*Corequisite(s):* One of Mathematics 1560 or Mathematics 1565 (recommended)

*Substantially Similar:*  
 Physics 1050

*Lib Ed Req:* Science

**PHYSICS 1050**

**Introduction to Biophysics**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

A non-calculus based introduction to biophysics, which emphasizes the application of physical principles to problems of biological significance. Material studied: animal mechanics, acoustics, radiation biophysics, and fluid properties.

*Prerequisite(s):* One of Mathematics 30-I, Pure Mathematics 30, Mathematics 0500, Mathematics 0520, or admission to the Post-Diploma B.Sc. in Environmental Science

*Recommended Background:*  
 One course in the physical sciences at the 20 level or above

*Substantially Similar:*  
 Physics 1000

*Lib Ed Req:* Science

**PHYSICS 2000**

**Introduction to Physics II**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

*Other hours per term: 0-0-6*

The second introductory calculus-based physics course. Concepts and problem-solving skills are emphasized. Material studied: electricity, magnetism, electromagnetism, and circuits.

*Prerequisite(s):* One of Mathematics 1560 or Mathematics 1565 (recommended) AND One of Physics 1000 (recommended), Physics 1050, or Engineering 2000

*Corequisite(s):* One of Mathematics 2560 or Mathematics 2565

*Lib Ed Req:* Science

**PHYSICS 2020**

**The Physics of Everyday Life**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Investigation of the connection between science and the world in which we live. Exploration of the fundamental science behind ordinary objects, devices, and technologies upon which we all depend in our everyday lives.

*Lib Ed Req:* Science

**Note:** No mathematical or science background is required for this course.

**PHYSICS 2120**

**Introduction to Physics III**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

The third introductory calculus-based physics course. Concepts and problem-solving skills are emphasized. Material studied: rotational physics, thermodynamics, gravitation, relativity, photons, and matter waves.

*Prerequisite(s):* One of Mathematics 1560 or Mathematics 1565 (recommended) AND One of Physics 1000 (recommended), Physics 1050, or [Physics 2130 and Engineering 2000]

*Corequisite(s):* One of Mathematics 2560 or Mathematics 2565

*Lib Ed Req:* Science

**PHYSICS 2130**

**Waves, Optics and Sound**

*Credit hours: 3.00*

*Contact hours per week: 3-3-0*

An introductory-level, calculus-based course in waves, optics and sound. The course will cover fluids; oscillations; mechanical and sound waves; superposition and standing waves; geometric optics including refraction, reflection and optical instruments; physical optics including interference, diffraction and polarization.

*Prerequisite(s):* One of Physics 30 or Physics 1050 AND One of Mathematics 30-I, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520

*Corequisite(s):* One of Mathematics 1560 or Mathematics 1565 (recommended)

*Lib Ed Req:* Science

**PHYSICS 2150**

**Quantum Mechanics I**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introductory course in quantum mechanics. Topics include the origin of quantum mechanics, wave properties of particles, and the Schrödinger equation and solutions in one and three dimensions.

*Prerequisite(s):* Physics 2000 AND Physics 2130 AND One of Mathematics 2570 or Mathematics 2565 (recommended)

*Lib Ed Req:* Science

**PHYSICS 2800**

**Methods in Mathematical Physics**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A course which provides the tools and develops the skills required to solve physical problems typical of those encountered at the second-year level and above. Areas studied include: matrix theory and applications, ordinary differential equations, series solutions, Laplace transforms, and vector analysis.

*Prerequisite(s):* Mathematics 1410 AND One of Mathematics 2560 or Mathematics 2565 (recommended)

*Lib Ed Req:* Science

**PHYSICS 2900****Studies in Experimental Physics (Series)***Credit hours: 3.00**Contact hours per week: 3-3-0*

Topics and techniques used in experimental physics are explored at an introductory level.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Science*

**PHYSICS 2925****Introduction to Experimental Physics***Credit hours: 3.00**Contact hours per week: 3-3-0*

Experiments selected from areas such as analog electronics, digital electronics, mechanics, acoustics, X-ray crystallography, solid state physics, electricity and magnetism, optics, thermometry, and nuclear physics.

*Prerequisite(s): Physics 2000 AND Physics 2120 AND Physics 2130*

*Lib Ed Req: Science*

**PHYSICS 3150****Quantum Mechanics II***Credit hours: 3.00**Contact hours per week: 3-0-0*

The fundamentals of quantum mechanics, starting with the wave-mechanical description of Schrödinger. Material studied: quantum states and amplitudes, simple harmonic oscillator, superposition and packet states, scattering and barrier penetration, angular momentum, the hydrogen atom, identical particles, and atomic radiation.

*Prerequisite(s): Physics 2150 AND One of Mathematics 2575 (preferred) or Mathematics 2580*

*Recommended Background: Physics 3175*

*Lib Ed Req: Science*

**PHYSICS 3175****Electricity and Magnetism***Credit hours: 3.00**Contact hours per week: 3-0-0*

The basic elements of electromagnetic theory. Material studied: electrostatics, magnetostatics, steady currents, electromagnetic induction, Maxwell's equations in both differential and integral forms, and electric and magnetic fields in matter.

*Prerequisite(s): Physics 2000 AND One of Mathematics 2575 (preferred) or Mathematics 2580*

*Lib Ed Req: Science*

**PHYSICS 3200****Mechanics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Intermediate-level classical mechanics. Material studied: Newton's laws of motion and their applications, conservation laws, collisions, oscillators, rigid body dynamics, central forces, relativistic dynamics, introduction to Lagrangian and Hamiltonian methods.

*Prerequisite(s): Physics 2000 AND One of Mathematics 2575 (preferred) or Mathematics 2580*

*Lib Ed Req: Science*

**PHYSICS 3400****Thermal and Statistical Physics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Phenomena of heat and properties of matter from a statistical point of view. Material studied: thermal equilibrium, processes and their reversibility, laws of thermodynamics and their microscopic basis, thermodynamic measurements; classical and quantum properties of matter and radiation, statistical ensembles, and distributions.

*Prerequisite(s): Physics 2120 AND Physics 2150 AND One of Mathematics 2575 (preferred) or Mathematics 2580*

*Lib Ed Req: Science*

**PHYSICS 3650****Optics***Credit hours: 3.00**Contact hours per week: 3-3-0*

Classical electromagnetic waves. Physical optics. Quantum optics. Experimental work includes: constructing optical systems, use of lasers in optical measurements, holography.

*Prerequisite(s): Physics 2000 AND Physics 2130 AND One of Mathematics 2575 (preferred) or Mathematics 2580*

*Recommended Background: Physics 3175*

*Lib Ed Req: Science*

**PHYSICS 3750****Contemporary Physics***Credit hours: 3.00**Contact hours per week: 3-0-1*

A survey of current developments in physics. The focus will be to highlight current research interests and recent applications of physics in industry and academia. Specific topics will be presented each week in seminars given by invited speakers and staff. Pre-seminar literature will be made available, and there will be class discussions, written reports, and student presentations associated with the seminars.

*Prerequisite(s): Physics 2120 AND Physics 2130*

*Lib Ed Req: Science*

**PHYSICS 3800****Methods of Theoretical Physics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Mathematical tools essential for advanced-level courses in classical and quantum mechanics. Topics may include: complex analysis, Fourier series and integral transforms, solution of partial differential equations, special and generalized functions, Green's functions, tensors, and group theory.

*Prerequisite(s): Physics 2800 AND One of Mathematics 2575 (preferred) or Mathematics 2580*

*Lib Ed Req: Science*

**PHYSICS 3840****Introduction to Computational Physics***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to numerical techniques and their application in experimental and theoretical physics. Material studied: symbolic and numeric computation, numerical analysis, and introductory programming and applications.

*Prerequisite(s): One of Mathematics 2575 (preferred) or Mathematics 2580*

*Lib Ed Req: Science*

**Note:** Prior knowledge of physics and programming is preferred but is NOT required.

**PHYSICS 3900****Intermediate Experimental Physics (Series)***Credit hours: 3.00**Contact hours per week: 3-3-0*

Topics and techniques used in experimental physics are explored at an intermediate level.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Science*

**PHYSICS 3925****Experimental Physics***Credit hours: 3.00**Contact hours per week: 3-3-0*

Emphasis on techniques in experimental research such as experimental design and precise measurements. Experiments may include topics from: EM waves; solid state physics; semiconductor physics; NMR, NQR, MRI and ESR; spectroscopy; and digital electronics.

*Prerequisite(s): Physics 2150 AND Physics 2925*

*Lib Ed Req: Science*

**PHYSICS 4000****Advanced Studies in Physics (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Subject material is chosen from advanced topics in contemporary physics.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Science*

**PHYSICS 4100****Nuclear and Particle Physics***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introductory survey of nuclear and modern particle physics. Topics range from the structure of nuclei and radioactivity to elementary particles such as quarks, gluons, and neutrinos, and their Feynman diagrams.

*Prerequisite(s): Physics 3150 AND Physics 3200*

*Lib Ed Req: Science*

**PHYSICS 4150****Quantum Mechanics III***Credit hours: 3.00**Contact hours per week: 3-0-0*

Mathematical and conceptual foundations of quantum mechanics at an advanced level. Material studied: general formalism, quantum dynamics, angular momentum, symmetries, approximate methods, scattering theory, path integrals, and interpretation.

*Prerequisite(s): Physics 3150 AND Physics 3200*

*Lib Ed Req: Science*

**PHYSICS 4175****The Electromagnetic Interaction***Credit hours: 3.00**Contact hours per week: 3-0-0*

Fundamental concepts of electromagnetic theory at an advanced level and some of their applications. Unity of electric and magnetic phenomena emphasized. Material studied: boundary value problems; energy density and energy flow; electromagnetism in relativistic notation; radiation; resonant cavities and waveguides.

*Prerequisite(s): Physics 3175*

*Lib Ed Req: Science*

**PHYSICS 4200****Advanced Mechanics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Hamilton's equations, canonical transformations, Lagrange and Poisson brackets, Hamilton-Jacobi equations, separation of variables, action angle variables, constants of motion, integrability, simple non-linear Hamiltonian systems, chaotic motion.

*Prerequisite(s): Physics 3200*

*Lib Ed Req: Science*

**PHYSICS 4250****Solid State Physics***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introductory study of the physical properties of solids. Material studied: crystalline structures; the formation of solids (different types of bonding); diffraction; energy bands in solids; and physical properties such as electrical, thermal, optical, and magnetic.

*Prerequisite(s): Physics 2150 AND Physics 2925 AND One of Mathematics 2575 (preferred) or Mathematics 2580*

*Corequisite(s): Physics 3150*

*Recommended Background: Physics 3400*

*Lib Ed Req: Science*

**PHYSICS 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which the student will conduct research under the supervision of a faculty member, give a public presentation on their work, and submit an Undergraduate Thesis which will be made publicly available.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND*

*A cumulative GPA of 3.30 or higher AND*

*A minimum of 13 courses (39.0 credit hours) in Physics*

*Corequisite(s): A minimum of two further courses (6.0 credit hours) in Physics*

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Political Science****(POLI)****Faculty of Arts and Science****POLITICAL SCIENCE 1000****Introduction to Political Science***Credit hours: 3.00**Contact hours per week: 3-0-0*

Basic concepts for political inquiry such as power, authority, state. Examination of governmental institutions and systems.

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 2110****International Relations***Credit hours: 3.00**Contact hours per week: 3-0-0*

Relations among nations, covering such topics as foreign policies of major powers, nature and functions of international organizations, international law and contemporary world problems.

*Prerequisite(s): One of Political Science 1000, a previous course (3.0 credit hours) in Political Science, or seven university-level courses (21.0 credit hours)*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 2210****Canadian Politics and Government***Credit hours: 3.00**Contact hours per week: 3-0-0*

Canadian political system, with special attention to political parties, the nature of federalism and functioning of the parliamentary system.

*Prerequisite(s): One of Political Science 1000, a previous course (3.0 credit hours) in Political Science, or seven university-level courses (21.0 credit hours)*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 2310****Comparative Politics and Government***Credit hours: 3.00**Contact hours per week: 3-0-0*

Comparative study of power, authority, administration, law, leadership and participation in selected political systems.

*Prerequisite(s): One of Political Science 1000, a previous course (3.0 credit hours) in Political Science, or seven university-level courses (21.0 credit hours)*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 2511****Introduction to Political Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

A selective introduction to the basic concepts of western political theory, focusing on ideas such as rights, consent, obligation, citizenship and the common good. Readings drawn from classical (e.g., Plato, Hobbes, Rousseau, Mill) and contemporary (e.g., Walzer, Taylor, MacIntyre, Nozick, Rawls) theorists.

*Prerequisite(s): One of Political Science 1000, a previous course (3.0 credit hours) in Political Science, or seven university-level courses (21.0 credit hours)*

*Lib Ed Req: Fine Arts and Humanities*

**POLITICAL SCIENCE 2610****Introductory Research Methods***Credit hours: 3.00**Contact hours per week: 3-0-0*

Concepts and methods of political inquiry; organization, development and articulation in research papers.

*Prerequisite(s): One of Political Science 1000 or a previous course (3.0 credit hours) in Political Science*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 3120****Canadian Foreign Policy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Process and institutions. Environmental, historical, social and economic influences on the process; external forces, including bilateral and multilateral commitments.

*Prerequisite(s): One of Political Science 2110 or Political Science 2210*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 3130****International Political Economy***Credit hours: 3.00**Contact hours per week: 3-0-0*

A review of the major theoretical approaches of the field. These theoretical perspectives will then be applied to various issue areas, such as international trade, foreign investment, regional integration, North-South relations, migration, labour, and the environment.

*Prerequisite(s): Political Science 2110*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 3170/****INTERNATIONAL  
MANAGEMENT 3170****The Politics of Canadian Trade Policy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Focus on the political economy of Canadian trade policy. Exploration of political, economic and institutional factors shaping Canada's participation in international agreements on trade and related issues. Examination of the interaction of regional, economic, intergovernmental, and societal factors with trade policies in Canadian domestic politics. Students will also be exposed to theoretical literature related to international political economy, public policy, Canadian federalism, and Canadian foreign policy.

*Prerequisite(s): Political Science 2110*

*Equivalent: Political Science 3170/  
Management 3670 (prior to  
2021/2022)*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 3210****Local Government and Politics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Municipal policy-making and administrative decision-making, financial functions, legal powers, land use management, public participation, and relations between municipalities and higher levels of government.

*Prerequisite(s): Political Science 2210*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 3215****Indigenous Peoples and Local  
Government in Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the key policy and administrative challenges as they relate to local governments and First Nations and urban Aboriginal Peoples. Topics include the impact of Aboriginal self-government and urban Indigenous self-determination, urban Aboriginal political representation and public participation, the politics of planning with neighbouring First Nations and urban Aboriginal peoples, urban government and sustainability, and conceptualizing urban governments in this new setting.

*Prerequisite(s): Political Science 2210*

*Equivalent: Political Science 3850  
(Municipal Indigenous  
Governance in Canada) (prior  
to 2017/2018)*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 3221****The Politics of Canadian Federalism***Credit hours: 3.00**Contact hours per week: 3-0-0*

Historical and current roles of federalism and regionalism in evolution of Canadian politics and policy; major issues including regional representation in federal institutions, federal-provincial and inter-provincial relations, influence of transnational and Aboriginal politics, and impact of federalism on Canadian economic and social policies.

*Prerequisite(s): Political Science 2210**Lib Ed Req: Social Science***POLITICAL SCIENCE 3241****Canadian Constitutional Law: Federalism and First Nations***Credit hours: 3.00**Contact hours per week: 3-0-0*

Basic principles of Canadian constitutional law as they relate to the evolving concept and practice of Canadian federalism. The concept and practice of judicial review. Basics and evolution of the constitutional division of powers. Aboriginal rights and First Nations. Evolution and process of constitutional amendment.

*Prerequisite(s): Political Science 2210**Lib Ed Req: Social Science***POLITICAL SCIENCE 3245/  
WOMEN AND GENDER  
STUDIES 3245****The Charter, Gender, and Social Change***Credit hours: 3.00**Contact hours per week: 3-0-0*

An interdisciplinary examination of the relationship between the Canadian Charter of Rights and Freedoms, gender, and social change that includes: theories of the legitimacy of judicial review; analyses of selected sections of the Constitution Act through Supreme Court and appellate court decisions; contemporary critical race, postcolonial, gender, sexualities, Indigenous and legal literatures that address intersecting forms of discrimination; current issues that highlight the role of law as a means of social control and political contestation; analyses of selected statutes, regulations and the facts presented to courts.

*Prerequisite(s): One of Political Science 1000, Political Science 2210, or Women and Gender Studies 1000**Lib Ed Req: Social Science***POLITICAL SCIENCE 3250****Alberta Politics and Government***Credit hours: 3.00**Contact hours per week: 3-0-0*

Problems in Alberta provincial politics; the formal and informal institutions of the Provincial government.

*Prerequisite(s): Political Science 2210**Lib Ed Req: Social Science***POLITICAL SCIENCE 3260****Canadian Public Policy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Factors and processes that enter into the making of Canadian public policy. Emphasis on specific policy areas which change periodically to take into account current government activities.

*Prerequisite(s): Political Science 2210**Lib Ed Req: Social Science***POLITICAL SCIENCE 3265****Social Policy in Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to Canadian social policy, outlining the historical trajectory of social policy and the social, ideological, political, and economic factors that shape contemporary debates. Analysis of certain national and provincial social programs, such as child welfare, social/public housing, employment insurance reform, and immigration.

*Prerequisite(s): Political Science 2210**Equivalent: Political Science 3850 (Social Policy in Canada) (prior to 2017/2018)**Lib Ed Req: Social Science***POLITICAL SCIENCE 3280****Canadian Political Behaviour***Credit hours: 3.00**Contact hours per week: 3-0-0*

Mass and elite political behaviour in Canada, including political culture, public opinion, political participation, voting and elections.

*Prerequisite(s): Political Science 2210**Lib Ed Req: Social Science***POLITICAL SCIENCE 3290****Digital Politics***Credit hours: 3.00**Contact hours per week: 3-0-0*

The impact of digital communications technologies on the political process, including representation, campaigning, citizen activism and participation, and e-government.

*Prerequisite(s): One of Political Science 2210 or Political Science 2310**Lib Ed Req: Social Science***POLITICAL SCIENCE 3320****Western European Political Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

A comparative examination of the government and politics of selected Western European countries such as Great Britain, Germany, the Netherlands and Spain.

*Prerequisite(s): Political Science 2310**Lib Ed Req: Social Science***POLITICAL SCIENCE 3322****Eastern European Political Systems***Credit hours: 3.00**Contact hours per week: 3-0-0*

A comparative examination of the communist legacy and the post-communist government and politics of selected Eastern European countries such as Russia, Poland, Hungary and Romania.

*Prerequisite(s): Political Science 2310**Lib Ed Req: Social Science***POLITICAL SCIENCE 3324****European Integration***Credit hours: 3.00**Contact hours per week: 3-0-0*

An analysis of post-war integration of (Western) Europe, particularly its political and economic dimensions. History, institutions and policies of the European Union. Comparative national attitudes to integration.

*Prerequisite(s): Political Science 2310**Lib Ed Req: Social Science***POLITICAL SCIENCE 3340****The Government and Politics of the United States***Credit hours: 3.00**Contact hours per week: 3-0-0*

Emphasis on American governmental institutions, political parties and behaviour and civil rights.

*Prerequisite(s): Political Science 2310**Lib Ed Req: Social Science*



**POLITICAL SCIENCE 3360****Developing Nations***Credit hours: 3.00**Contact hours per week: 3-0-0*

Comparative study of socio-economic and political development and modernization in selected African, Asian, Caribbean, Latin American, and/or Middle Eastern countries, including general comparisons with some Western political systems.

*Prerequisite(s): Political Science 2310**Lib Ed Req: Social Science***POLITICAL SCIENCE 3390****Politics and Democratization in Latin America***Credit hours: 3.00**Contact hours per week: 3-0-0*

A comparative examination of the political development and politics of selected Latin American countries. Historical and current processes. Failures and limits to democratization. Presidentialism and party politics.

*Prerequisite(s): Political Science 2310**Lib Ed Req: Social Science***POLITICAL SCIENCE 3400****Public Administration***Credit hours: 3.00**Contact hours per week: 3-0-0*

Role of administration in modern government including trends and challenges in government organization, interdepartmental and intergovernmental relations, administrative regulation, budgetary processes, and personnel administration.

*Prerequisite(s): Political Science 2210**Lib Ed Req: Social Science***POLITICAL SCIENCE 3500****Pre-Modern Political Thought (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Political thought from the ancient Greeks and Romans through the classical Christian period to the late Middle Ages. Various philosophers may be studied, such as Plato, Aristotle, Cicero, Augustine, Aquinas, and Dante, and their views on virtue, wisdom, the best regime, politics and religion, friendship, justice, just war, and/or natural law.

*Prerequisite(s): Political Science 2511**Lib Ed Req: Fine Arts and Humanities***POLITICAL SCIENCE 3511****Political Thought Since 1500 (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of modern and post-modern political thought, from the 16th to 21st century. The focus of each offering will vary, and may include philosophers such as Machiavelli, Hobbes, Locke, Mill, Tocqueville, Kant, Kierkegaard, Nietzsche, Arendt, Strauss, Oakeshott, and Voegelin, and their views on issues such as fortune, the state, liberty, democracy, equality, totalitarianism, Gnosticism, problem of natural right, and technology.

*Prerequisite(s): Political Science 2511**Lib Ed Req: Fine Arts and Humanities***POLITICAL SCIENCE 3525****Politics of Reason and Revelation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Philosophical examination of the interaction between politics and religion. Liberal democracy, Islam, Antiquity, Middle Ages, modernity, politics of reason and revelation, separation of church and state, civil religion, meanings of 'secular,' and conscience.

*Prerequisite(s): Political Science 2511**Lib Ed Req: Fine Arts and Humanities***POLITICAL SCIENCE 3730****Mass Media and Politics***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of the relationship between news media, the public, and democracy. The state of contemporary journalism, emphasizing the key economic, organizational, social, technological, and other factors that influence editorial content and shape and constrain news production. Topics include the role of mass media in a democracy, political economy approaches to media analysis, institutional studies of news-making, effects of mass media on the public and politics, the political significance of entertainment media, media and foreign policymaking, propaganda and campaign advertising, and the internet and politics.

*Prerequisite(s): One 2000-level course (3.0 credit hours) in Political Science*  
*Equivalent: Political Science 3850 (Mass Media and Politics) (prior to 2017/2018)*

*Lib Ed Req: Social Science***POLITICAL SCIENCE 3740****Social Movements***Credit hours: 3.00**Contact hours per week: 3-0-0*

The history of social movements, with an emphasis on Canada. Introduction to basic concepts and theories of social movement research to understand why and how individuals mobilize, with special attention to how specific movements form, grow, and decline.

*Prerequisite(s): One 2000-level course (3.0 credit hours) in Political Science**Equivalent: Political Science 3850 (Social Movements) (prior to 2017/2018)**Lib Ed Req: Social Science***POLITICAL SCIENCE 3750****Politics and Popular Culture (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of theories and concepts in politics and/or international relations through their portrayal in works of popular culture including movies, television, works of literature, and other media.

*Equivalent: Political Science 3850 (Film and International Relations) (prior to 2018/2019) is equivalent to the same offering in the Political Science 3750 Series;*  
*Political Science 3850 (The International Relations of Middle Earth: Lessons from Lord of the Rings) (prior to 2018/2019) is equivalent to the same offering in the Political Science 3750 Series*

**POLITICAL SCIENCE 4100****Seminars in International Relations (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminars on topics in international politics, such as international relations theory, human rights, the environment, international security, diplomacy, the global economy, technology, international institutions and law, and conflict management.

*Prerequisite(s): Political Science 2110 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**POLITICAL SCIENCE 4200****Seminars in Canadian Politics and Government (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminars on topics in Canadian politics and government, such as aspects of the judiciary, business and government, Canada-US relations, political parties, pressure groups, the media, public policy, political institutions, and political behaviour and/or the interaction thereof.

*Prerequisite(s):* Political Science 2210 AND  
Third-year standing (a  
minimum of 60.0 credit hours)

*Lib Ed Req: Social Science***POLITICAL SCIENCE 4300****Seminars in Comparative Politics (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminars on topics in comparative politics, such as democratization and democratic breakdown, comparative development, political institutions and executives, representation and electoral systems, voter turnout and compulsory voting, state formation and dissolution, rise and decline of nations and great powers, comparative federalism, comparative public policy, comparative party politics. Countries vary by topic(s).

*Prerequisite(s):* Political Science 2310 AND  
Third-year standing (a  
minimum of 60.0 credit hours)

*Lib Ed Req: Social Science***POLITICAL SCIENCE 4511****Seminars in Political Philosophy (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Themes in political philosophy, such as friendship, enmity, justice, war, equality, democracy, liberty, virtue, law, empire, technology, tyranny, religion. Texts vary yearly.

*Prerequisite(s):* Political Science 2511 AND  
Third-year standing (a  
minimum of 60.0 credit hours)

*Lib Ed Req: Fine Arts and Humanities***POLITICAL SCIENCE 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a  
minimum of 90.0 credit hours)  
AND

A cumulative GPA of 3.30 or  
higher AND

Political Science 2610 AND  
Three of Political Science 2110,  
Political Science 2210, Political  
Science 2310, or Political  
Science 2511 AND

At least two 3000-level courses  
(6.0 credit hours) in Political  
Science

**Note:** Contact hours will vary. Students should be  
aware that this course involves regular  
contact with the Thesis Supervisor as well as  
considerable independent work.

**Psychology****(PSYC)****Faculty of Arts and Science****PSYCHOLOGY 1010****Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of Psychology as a science, including, but not limited to, brain and behaviour, sensation and perception, cognition, learning, memory, comparative psychology, and animal behaviour.

*Lib Ed Req: Science***PSYCHOLOGY 1020****Introduction to Psychology B: Developmental, Sociocultural, and Abnormal***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of Psychology as a social science, including, but not limited to, social psychology, developmental psychology, cross-cultural psychology, abnormal psychology, and forensic psychology.

*Lib Ed Req: Social Science***PSYCHOLOGY 1030****Methods and Statistics A***Credit hours: 3.00**Contact hours per week: 2-0-1*

Methodological and statistical techniques as used by psychologists. Lecture topics include scientific thinking, the scientific method, and the philosophy of science. The tutorial component will include basic data analysis techniques including spreadsheets, graphs, and descriptive statistics, as well as scientific reading and writing.

*Lib Ed Req: Science or Social Science***PSYCHOLOGY 2005****Psychological Sketches: Straight from the Researchers***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to specific research topics in Psychology. Students learn from a team of scholars, each of whom teaches in their own area of expertise. The "team taught" format helps Psychology majors identify professors with whom they would like to take classes or conduct research in the future.

*Equivalent: Psychology 1000 (prior to  
2022/2023)*

*Lib Ed Req: Science or Social Science***PSYCHOLOGY 2030****Methods and Statistics B***Credit hours: 3.00**Contact hours per week: 2-1-0*

Methodological and statistical techniques as used by psychologists. Lecture topics will focus on specific methods (e.g., experiments, surveys, comparative research), the questions they can answer, and their strengths and weaknesses, along with basic inferential statistical techniques. The laboratory component will focus on the design, execution, and write up of a research project.

*Prerequisite(s): Psychology 1030**Mutually Exclusive:**Sociology 2130**Substantially Similar:**Sociology 2130**Lib Ed Req: Science*

**PSYCHOLOGY 2110****Introduction to Child Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to social, physical, and cognitive development from infancy to late childhood, and the major theoretical perspectives underlying research in each domain.

*Prerequisite(s):* One of Psychology 1020 or Psychology 1000 (prior to 2022/2023)

*Lib Ed Req:* Social Science

**PSYCHOLOGY 2330****Learning and Cognition***Credit hours: 3.00**Contact hours per week: 3-0-0*

Conscious and unconscious cognitive processes in humans and other animals, including classical and operant conditioning.

*Prerequisite(s):* One of Psychology 1010 or Psychology 1000 (prior to 2022/2023)

*Lib Ed Req:* Science

**PSYCHOLOGY 2700****Behaviour and Evolution***Credit hours: 3.00**Contact hours per week: 3-0-0*

Concepts and research from the fields of evolutionary biology, behavioural ecology, and comparative psychology are outlined and used to provide an evolutionary context for our understanding of psychological mechanisms.

*Prerequisite(s):* One of Psychology 1010 or Psychology 1000 (prior to 2022/2023)

*Lib Ed Req:* Science

**PSYCHOLOGY 2800****Social Psychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the major theoretical perspectives used in social psychology and the research methods used in the study of social behaviour. Topics include: attitudes and persuasion, prejudice and discrimination, aggression, and love and friendship.

*Prerequisite(s):* One of Psychology 1020 or Psychology 1000 (prior to 2022/2023)

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3000****Issues in Psychology (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings, but will normally include two 2000-level courses (6.0 credit hours) in Psychology or Neuroscience

**PSYCHOLOGY 3050****Human Cognition***Credit hours: 3.00**Contact hours per week: 3-0-0*

Thinking, remembering, talking, problem solving, seeing, hearing, and feeling as cognitive and perceptual processes.

*Prerequisite(s):* Psychology 2330 AND Neuroscience 2610 AND Neuroscience 2620 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Equivalent:* Psychology 2320 (prior to 2018/2019); Psychology 3850 (Human Cognition) (prior to 2018/2019)

*Lib Ed Req:* Science

**PSYCHOLOGY 3105****Adolescent Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to social, physical, and cognitive development from late childhood to emerging adulthood, and the major theoretical perspectives underlying research in each domain.

*Prerequisite(s):* Psychology 2110 AND Neuroscience 2610 AND Neuroscience 2620 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Equivalent:* Psychology 3000 (Adolescence) (prior to 2022/2023)

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3120****Psychology of Aging***Credit hours: 3.00**Contact hours per week: 3-0-0*

Current theories of adult development and aging; the effects of aging on sensation and perception, learning, personality and social adjustment.

*Prerequisite(s):* Psychology 2110 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Recommended Background:* Psychology 2800

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3130****Developmental Psychopathology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Current theories and research into atypical child development with a focus on biological, cognitive, social, emotional, and environmental influences on disordered development from conception to adolescence.

*Prerequisite(s):* Psychology 2110 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3240/****LINGUISTICS 3240****Psychology of Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of how language is processed in the mind. Topics include language production and comprehension, language acquisition, bilingualism, and language disorders. Special emphasis will be placed on the developmental aspects of psycholinguistics.

*Prerequisite(s):* Psychology 2110 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Recommended Background:* One of Psychology 2330, Psychology 2800, Linguistics 2300, or Linguistics 2600

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3330****Social Cognition***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will explore how individuals make sense of themselves and the people around them. We will study classic and contemporary social cognition research to examine how people process information about their social world.

*Prerequisite(s):* Psychology 2800 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3360****Sensation and Perception***Credit hours: 3.00**Contact hours per week: 3-0-0*

The study of sensation and perception is the evaluation of human reception and computation of incoming information about ourselves and the environment. This course will cover the five senses – sight, hearing, touch, taste, and smell. It will also cover the changes in these senses over the lifespan, aspects of individual differences and sensory malfunction, the interaction between perception and cognition, and common characteristics of processing by all the systems.

*Prerequisite(s):* Psychology 2330 AND Neuroscience 2610 AND Neuroscience 2620 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Recommended Background:* Psychology 3050

*Lib Ed Req:* Science

**PSYCHOLOGY 3400****Advanced Research Design and Data Analysis***Credit hours: 3.00**Contact hours per week: 3-0-1.5*

Advanced discussion of research design and data analysis with emphasis on sophisticated research designs, high-level statistical computer packages and current controversies in the area.

*Prerequisite(s):* Psychology 2030 AND One additional 2000-level course (3.0 credit hours) in Psychology or Neuroscience

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 3405/****LINGUISTICS 3405****First Language Acquisition***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to first language acquisition. Topics include: research methods; phonological, morphological, syntactic, lexical and communicative development; language acquisition in special circumstances (deafness, blindness, mental retardation, autism); bilingual language acquisition.

*Prerequisite(s):* Linguistics 2300 AND Linguistics 2600

*Recommended Background:* A 2000-level course in Psychology

*Equivalent:* Linguistics 3400 (prior to 2016/2017)

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3450/HEALTH SCIENCES 3450****Applied Statistics for Clinical Practice***Credit hours: 3.00**Contact hours per week: 3-1-0*

Traditional application of descriptive and inferential statistical techniques used in applied disciplines such as health sciences and clinical psychology. Topics include choosing statistical tests, data entry and coding, parametric and non-parametric tests, correlation, chi-square, t-tests, ANOVA, interpretation of statistical tests, statistical significance versus clinical significance, and clinical implications of statistical testing.

*Prerequisite(s):* Two courses (6.0 credit hours) at the 2000 level or higher in Addictions Counselling, Health Sciences, Neuroscience, or Psychology  
OR  
Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Science

**PSYCHOLOGY 3500****Abnormal Psychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the realm of abnormal behaviour and experiences, their causes, developmental course, and treatments. Historical perspectives on abnormality; a wide range of psychopathologies currently included in the DSM; major theoretical perspectives that attempt to explain mental illness; and approaches to altering abnormal behaviour.

*Prerequisite(s):* Psychology 2110 AND Psychology 2330 AND Neuroscience 2610 AND Neuroscience 2620 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Equivalent:* Psychology 2505 (prior to 2020/2021); Psychology 3850 (Topics in Abnormal Psychology) (prior to 2020/2021)

*Substantially Similar:* Addictions Counselling 3150 (prior to 2022/2023); Health Sciences 3150

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3525****Hormones and Behaviour***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will explore how hormones, external environmental signals and the nervous system interact to produce complex behaviour.

*Prerequisite(s):* Neuroscience 2610 AND Neuroscience 2620 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Lib Ed Req:* Science

**PSYCHOLOGY 3535****Drugs and Behaviour***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will explore the interaction between the cellular and molecular effects of psychotropic drugs on brain function, and the resulting effects on behaviour.

*Prerequisite(s):* Neuroscience 2610 AND Neuroscience 2620 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Lib Ed Req:* Science

**PSYCHOLOGY 3570/HEALTH SCIENCES 3570****Contemporary Issues in Mental Health***Credit hours: 3.00**Contact hours per week: 3-0-0*

Mental health issues, including mental health research, the mental health care system, the nature of mental health, the DSM diagnostic system, the interplay between the pharmaceutical industry and the mental health care system, gender issues, mental health treatments, the role of trauma in mental health, and various specific mental health concerns such as depression, anxiety, schizophrenia, ADHD, and eating disorders.

*Prerequisite(s):* One 2000-level course (3.0 credit hours) in Psychology, Neuroscience, or Health Sciences  
OR  
Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3635****Evolution and Psychobiology of Religious Behaviour***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the conditions in/under which our brains developed and evolved the capacity and strong tendency to believe in supernatural agents, and to what extent this belief influences our daily behaviours. Cognitive science of religion.

*Prerequisite(s):* Psychology 2700 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Equivalent:* Psychology 3850 (Psychobiology of Religious Behaviour) (prior to 2022/2023)

*Lib Ed Req:* Science

**PSYCHOLOGY 3745****Human-Animal Interactions***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of the many and sometimes changing relationships of humans with non-human animals. Evaluation of the bases on which we form these relationships and our cognition about and attitudes to non-human animals. Interactions with parasites, pets, animals in agriculture and research, control of and values for wildlife, and what the future of such interactions should be.

*Prerequisite(s):* Psychology 2700 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Equivalent:* Psychology 3000 (Human-Animal Interactions) (prior to 2022/2023)

*Lib Ed Req:* Social Science

**PSYCHOLOGY 3760****Animal Communication***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of the diversity of systems of communication found in animals, including humans, and how they are tailored to the variety of social and ecological challenges that different species face. The overarching goal will be to distill from this variety some common design principles from which we can begin to understand how communication systems function, how they evolve, and how they are organized mechanistically.

*Prerequisite(s):* Psychology 2700 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Lib Ed Req:* Science

**PSYCHOLOGY 3770****Primate Lives and Human Cognitive Evolution***Credit hours: 3.00**Contact hours per week: 3-0-0*

Comparative information on phylogeny, ecology, and social lives of other primates will be used to assess the extent to which the nature of human cognition can be understood in terms of evolutionary processes.

*Prerequisite(s):* Psychology 2700 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 3780****Animal and Human Personalities***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the development, mechanisms, function, and evolution of personality traits in humans and other animals, by exploring the theoretical foundations, methodological approaches, and broad implications of this psychological research field. Ultimately, it aims to answer a key question: What defines and explains who someone really is?

*Prerequisite(s):* Psychology 2330 AND

One of Psychology 2030,  
Sociology 2130,  
Statistics 1770, or  
Psychology 3450/Health  
Sciences 3450

*Equivalent:* Psychology 3850 (Animal and Human Personalities) (prior to 2018/2019)

*Lib Ed Req:* Science**PSYCHOLOGY 3790****Human Behavioural Ecology***Credit hours: 3.00**Contact hours per week: 3-0-0*

The intention of this course is to contextualise human psychology by considering the ways in which biology and culture play off each other to structure human action. It takes as its starting premise that our understanding of the behaviour and social organisations of modern humans can usefully be interpreted within a historical socio-ecological framework that acknowledges our biology without reducing to it.

*Prerequisite(s):* Psychology 2700 AND

One of Psychology 2030,  
Sociology 2130,  
Statistics 1770, or  
Psychology 3450/Health  
Sciences 3450

*Equivalent:* Psychology 2850 (Human Behavioural Ecology) (prior to 2018/2019);  
Psychology 3850 (Human Behavioural Ecology) (prior to 2018/2019)

*Lib Ed Req:* Science**PSYCHOLOGY 3805****Social Learning and Culture***Credit hours: 3.00**Contact hours per week: 3-0-0*

How and why humans and non-human animals innovate, learn in a social context, and generate culturally transmitted information, behaviour, and artefacts.

*Prerequisite(s):* Psychology 2330 AND

One of Psychology 2030,  
Sociology 2130,  
Statistics 1770, or  
Psychology 3450/Health  
Sciences 3450

*Equivalent:* Psychology 3850 (Social Learning and Culture) (prior to 2022/2023)

*Lib Ed Req:* Social Science**PSYCHOLOGY 3825****Human Sociality: Ourselves and Others***Credit hours: 3.00**Contact hours per week: 3-0-0*

An exploration of the evolutionary and sociocultural factors that shape human lives and minds. Meta-analytical examination of a variety of topics that have relevance to modern society, including race and health differentials, fertility and assisted reproduction, the likely impact of climate change on behaviour, the diagnosis and treatment of psychiatric disorders, and how cultural influences shape our understanding and attitudes toward death.

*Prerequisite(s):* Psychology 2800 AND

One of Psychology 2030,  
Sociology 2130,  
Statistics 1770, or  
Psychology 3450/Health  
Sciences 3450

*Recommended Background:*  
Psychology 2700

*Equivalent:* Psychology 3850 (Culture, Evolution, and Human Social Life) (prior to 2022/2023)

*Lib Ed Req:* Social Science**PSYCHOLOGY 3845****Issues in Sexuality***Credit hours: 3.00**Contact hours per week: 3-0-0*

Human universals in sexuality examined within the broader context of human sexual diversity.

*Prerequisite(s):* Psychology 2800 AND

One of Psychology 2030,  
Sociology 2130,  
Statistics 1770, or  
Psychology 3450/Health  
Sciences 3450

*Lib Ed Req:* Social Science**PSYCHOLOGY 3910****Psychology of Criminal Behaviour***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the individual and social factors that increase the likelihood of people engaging in antisocial and criminal behaviour. Topics include developmental continuity; persistence or desistance; psychopathy; risk assessment; and psychological treatment.

*Prerequisite(s):* Psychology 2110 AND

Psychology 2330 AND  
One of Psychology 2030,  
Sociology 2130,  
Statistics 1770, or  
Psychology 3450/Health  
Sciences 3450

*Recommended Background:*

Psychology 2800

*Equivalent:* Psychology 3850 (Psychology of Criminal Behaviour) (prior to 2022/2023);  
Psychology 3850 (Psychology of Crime) (prior to 2022/2023)

*Lib Ed Req:* Social Science**PSYCHOLOGY 4210****Speech Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced seminar on child speech acquisition. Topics include speech production and perception mechanisms, classical theories and recent findings in child phonological development, and hands-on practice in the application of acoustic analytical tools.

*Prerequisite(s):* One of Psychology 3240/

Linguistics 3240 or  
Psychology 3405/  
Linguistics 3405

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 4220****The Psychology of Choice***Credit hours: 3.00**Contact hours per week: 3-0-0*

Choice is an integral component of adaptive behaviour in humans and other living organisms. In this seminar-style course, we discuss rational choice, as well as deviations from rationality that can bias decisions. We focus on psychological and economic theories of choice, but we also consider choice from biological, philosophical, and neuroscientific perspectives.

*Prerequisite(s):* Psychology 2700 AND Psychology 2330 AND One of Psychology 2030, Sociology 2130, Statistics 1770, or Psychology 3450/Health Sciences 3450

*Equivalent:* Psychology 4850 (The Psychology of Choice) (prior to 2018/2019)

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 4460****Celluloid Psychology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Advanced scientific study at the intersection of experimental psychology, perceptual science, and film studies, with topics focusing on psychological and technical aspects of film-making, perceptual and psychological dimensions of film viewing, and associated psychological representations in film. Combines findings and theory from basic empirical research in psychology with corresponding applied elements in the construction, presentation, and perception of film, as may also pertain to the subfield of cognitive film studies.

*Prerequisite(s):* Psychology 3360

*Recommended Background:* Psychology 3050

*Equivalent:* Psychology 4850 (Celluloid Psychology) (prior to 2019/2020)

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 4505****Biological Bases of Mental Disorders***Credit hours: 3.00**Contact hours per week: 3-0-0*

Biological and cognitive factors that are implicated in the pathology of atypical behaviour. Emphasis will be placed on the research methodology used to investigate these relationships.

*Prerequisite(s):* Psychology 3500 AND One of Psychology 3525 or Psychology 3535

*Equivalent:* Psychology 4000 (Biological Bases of Mental Disorders) (prior to 2022/2023)

*Lib Ed Req:* Science

**PSYCHOLOGY 4520****Neurodevelopmental Disorders***Credit hours: 3.00**Contact hours per week: 3-0-0*

Coverage of atypical developmental trajectories of behaviour due to core disruptions to neural development. Emphasis will be placed on the research methodology used to investigate the neuropathology of atypical development and behavioural outcomes.

*Prerequisite(s):* Psychology 3130 AND Neuroscience 2610 AND Neuroscience 2620

*Equivalent:* Psychology 4000 (Neurodevelopmental Disorders) (prior to 2022/2023)

*Lib Ed Req:* Science

**PSYCHOLOGY 4540****Current Issues in Psychopathology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Critical evaluation of the arguments and claims asserted in/by peer reviewed literature, popular media, and clinicians about current issues in assessment, etiology, and treatment of psychopathology.

*Prerequisite(s):* Psychology 3500

*Equivalent:* Psychology 4850 (Current Issues in Psychopathology) (prior to 2022/2023); Psychology 3850 (Current Issues in Psychopathology) (prior to 2022/2023)

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 4550****Abnormal Psychology (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Offerings will focus on issues and concepts involved in psychological abnormality through evaluation of specific disorder categories.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings, but will normally include two 3000-level courses (6.0 credit hours) in Psychology or Neuroscience

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 4710****Human Health, Behaviour, and Social Technologies***Credit hours: 3.00**Contact hours per week: 3-0-0*

How cultural practices and technology have transformed the world around us with the aim of increasing human survival and well-being. Pros and cons of a variety of health-related transformations from both a biological and psychological perspective.

*Prerequisite(s):* One of Psychology 3790, Psychology 3805, or Psychology 3825

*Equivalent:* Psychology 4850 (Human Health, Behaviour, and Social Technologies) (prior to 2022/2023)

*Lib Ed Req:* Science or Social Science

**PSYCHOLOGY 4830****Cultural Organisms***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of different forms of material and social culture in humans and non-human animals. Examination of the psychological processes underlying innovation, cultural norms, ethnic markers, cultural taboos, cultural stereotypes, culture shock, etc. The evolutionary implications of culture, including cumulative cultural evolution, cultural group selection, niche construction, biology-culture coevolution as a dual inheritance system, and the concept of memes.

*Prerequisite(s):* One of Psychology 3805 or Psychology 3825

*Equivalent:* Psychology 4850 (Cultural Organisms) (prior to 2022/2023)

*Lib Ed Req:* Science or Social Science

## PSYCHOLOGY 4995

### Undergraduate Thesis

*Credit hours: 6.00*

*Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct empirical research, report orally on the work, and submit a report in the form of an Undergraduate Thesis which will be made publicly available.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND  
A cumulative GPA of 3.30 or higher AND  
One Independent Study or Applied Study (3.0 credit hours) in Psychology AND  
Application to the Department of Psychology

*Recommended Background:*  
Psychology 3400

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Public Health (PUBH)**  
**Faculty of Health Sciences**

## PUBLIC HEALTH 1000

### Introduction to Public Health

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course will provide an introduction to individual and population health by exploring health as an evolving and multidimensional concept shaped through historical, cultural, psychosocial, economic and environmental contexts. The values, goals, interdisciplinary roles and settings for public health practice will be explored. Models for community health, health promotion, and population health will be introduced.

*Lib Ed Req:* Social Science

## PUBLIC HEALTH 2000

### Population Health

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Population health is examined through the determinants of health. Historical and theoretical perspectives will be explored with a focus on chronic disease prevention, injury prevention, health promotion, and healthy aging.

*Prerequisite(s):* One of Public Health 1000, Health Sciences 2700/ Sociology 2700, or Third-year standing (a minimum of 60.0 credit hours) in the B.N. program

*Lib Ed Req:* Social Science

## PUBLIC HEALTH 2100

### Policy and Health

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course will introduce students to fundamental concepts in policy, politics, and health. It will explore the influence of policy at all levels of government on population health, highlight the importance of evidenced-based policy solutions, and prepare students to contribute to the development, implementation, enhancement, and evaluation of policies affecting the health of society.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

## PUBLIC HEALTH 3000

### Canadian and Global Perspectives

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Health disparities are examined within the Canadian population and global contexts. Poverty and the health of Indigenous populations will be explored with a focus on community development as an approach to public health practice.

*Prerequisite(s):* One of Health Sciences 2700/ Sociology 2700, Health Sciences 3002, one course (3.0 credit hours) in Public Health, or Third-year standing (a minimum of 60.0 credit hours) in the B.N. program

## PUBLIC HEALTH 3100

### Environmental Health

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Key environmental and health topics are addressed in this from both local and global geographical contexts. An interdisciplinary approach will be used to explore the physical, psycho-social-spiritual, political, economic, and contextual factors influencing population health.

*Prerequisite(s):* Second-year standing (a minimum of 30.0 credit hours)

*Equivalent:* Health Sciences 3850 (Health and the Environment) (prior to 2016/2017)

## PUBLIC HEALTH 3420

### Public Health Ethics

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Ethical principles and values are introduced to explore the tension between individualistic notions of human rights and the communitarian concern for the well-being of communities in public health practice.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours)

## PUBLIC HEALTH 4000

### Advanced Public Health

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Students further advance skills and knowledge related to public health through the integration and application of knowledge acquired in previous course work. Encourages growth and development of public health core competencies and prepares students to successfully engage in professional practice and/or pursue graduate education.

*Prerequisite(s):* Public Health 1000 AND Public Health 2000 AND Public Health 3420 AND One of Health Sciences 2003/ Biology 2003 or Health Sciences 3260



**PUBLIC HEALTH 4003****Advanced Epidemiology***Credit hours: 3.00**Contact hours per week: 3-2-0*

The prerequisite for this course teaches introductory principles sufficient to interpret and critique basic published epidemiologic research. Public Health 4003 Advanced Epidemiology builds on this knowledge base by focusing on advanced principles, as well as the practice of epidemiology. Students will learn how to design their own observational or experimental epidemiologic study, and how to develop a systematic review protocol. This course will include a lab component to ensure students gain the hands-on experience needed to design epidemiologic research, and the epidemiologic field methods required to support the validity, precision, and management of data collected.

*Prerequisite(s):* Health Sciences 2003/  
Biology 2003

*Equivalent:* Public Health 5003

**PUBLIC HEALTH 4550****Practicum in Public Health***Credit hours: 15.00**Other hours per term: 0-0-487.5*

Students will work with individuals, organizations, or community groups to address health promotion and population health issues within varied cultural concepts. Concepts of health promotion, chronic disease prevention, injury prevention, and epidemiology are integrated into practice. Collaboration and intersectoral partnerships may be explored through work in a community setting.

*Prerequisite(s):* A minimum cumulative GPA of 2.7 AND

Anthropology 1000 AND  
Health Sciences 2310 AND  
Health Sciences 2400 AND  
Health Sciences 2700/  
Sociology 2700 AND  
Health Sciences 3002 AND  
Health Sciences 3450/  
Psychology 3450 AND  
Health Sciences 3500/  
Management 3825 AND  
Health Sciences 3510 AND  
Public Health 2100 AND  
Public Health 3000 AND  
Public Health 3100 AND  
Public Health 4000  
OR

A minimum cumulative GPA of 2.7 AND  
Public Health 4000 AND  
Admission to the Public Health major in the post-diploma B.H.Sc. program

*Grading:* Pass/Fail

**Religious Studies****(RELS)****Faculty of Arts and Science****RELIGIOUS STUDIES 1000****Introduction to World Religions***Credit hours: 3.00**Contact hours per week: 3-0-0*

Structure, belief and practices of Eastern and Western religious traditions.

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2001****Religion, Worldviews, and Identity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of different ways to understand religion as both a product and producer of worldviews and their expression in culture and identity. Critical thinking about boundaries between religion and other spheres of life while also addressing whether "religion" is reducible to social, psychological, or other factors. Introduction of key thinkers in the study of religion and culture and provide opportunities for cross-cultural comparative analyses.

*Prerequisite(s):* Four courses (12.0 credit hours) in Arts and Science

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2100****The Hindu Tradition***Credit hours: 3.00**Contact hours per week: 3-0-0*

Thought and practices of classical Hinduism; reform and sectarian movements; significant thinkers in modern Hinduism.

*Prerequisite(s):* One of Religious Studies 1000, Asian Studies 1000, History 1200, or four courses (12.0 credit hours) in Arts and Science

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2200****The Buddhist Tradition***Credit hours: 3.00**Contact hours per week: 3-0-0*

Thought and practice of Theravada and Mahayana Buddhism.

*Prerequisite(s):* One of Religious Studies 1000, Asian Studies 1000, History 1200, or four courses (12.0 credit hours) in Arts and Science

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2330****Chinese Religions***Credit hours: 3.00**Contact hours per week: 3-0-0*

Religious history, thought and practices of China including Daoism (Taoism), Confucianism and Buddhism.

*Prerequisite(s):* One of Religious Studies 1000, Asian Studies 1000, History 1200, or four courses (12.0 credit hours) in Arts and Science

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2360****Japanese Religions***Credit hours: 3.00**Contact hours per week: 3-0-0*

Religious history, thought and practices of Japan including Shinto and Buddhism.

*Prerequisite(s):* One of Religious Studies 1000, Asian Studies 1000, History 1200, or four courses (12.0 credit hours) in Arts and Science

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2400****Judaism***Credit hours: 3.00**Contact hours per week: 3-0-0*

An introduction to the history, beliefs, and practices of Judaism from the formation of biblical texts to the modern world, with attention to the concepts of Jewish identity and tradition, the formation of Rabbinic Judaism, and the modern plurality of Jewish practice.

*Prerequisite(s):* One of Religious Studies 1000 or four courses (12.0 credit hours) in Arts and Science

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2450****Bible Survey***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of the major episodes, themes, and literary styles of the Old and New Testaments emphasizing the significance of the Bible to Jewish and Christian beliefs and practices and to Western culture in general. Biblical stories and motifs; variety of interpretations illustrated through classics of Western art and literature. Some consideration of historical processes in the creation of the various biblical canons.

*Prerequisite(s):* Four courses (12.0 credit hours) in Arts and Science

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 2500****Christianity***Credit hours: 3.00**Contact hours per week: 3-0-0*

A survey of the development of Christianity from its beginning to the present, with attention to its beliefs and practices, and its role in Western society.

*Prerequisite(s): One of Religious Studies 1000 or four courses (12.0 credit hours) in Arts and Science*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 2600****Islam***Credit hours: 3.00**Contact hours per week: 3-0-0*

Historical development of Islam from the pre-Islamic period to and including the Ottoman Empire, the Qur'an, beliefs and practices of Islam.

*Prerequisite(s): One of Religious Studies 1000 or four courses (12.0 credit hours) in Arts and Science*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3000****Studies in Religious Traditions (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Issues and aspects of various religious traditions.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3030****Religion and Film (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected topics dealing with the representation, expression, critique, or adaptation of religious beliefs, practices, or religious cultures in motion pictures and television; film and television as modern mythology; use of motion picture genres by religious groups.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Equivalent: Religious Studies 3000 (Religion and the Science Fiction Screen) (prior to 2020/2021) is equivalent to the same offering in the Religious Studies 3030 Series*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3040****Death, Dying, and the Afterlife (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected topics dealing with religious understandings of death, the grieving and mourning processes, rituals, burials, and beliefs in the afterlife, reincarnation, or judgement. Mortality awareness as a factor in generating religious and social behaviour, ideology, and practices.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Equivalent: Religious Studies 3000 (Dying Religiously) (prior to 2020/2021) is equivalent to the same offering in the Religious Studies 3030 Series*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3050****Religion and Art (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected topics dealing with the production and functions of art in religious contexts, views on artistic production as a religious act, and art objects as representations or manifestations of the divine.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Equivalent: Religious Studies 3100 (Indian Religions Through Art) (prior to 2020/2021) is equivalent to the same offering in the Religious Studies 3030 Series; Religious Studies 3600 (Islamic Art, Architecture, and Music) (prior to 2020/2021) is equivalent to the same offering in the Religious Studies*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3100****Studies in Indian Religion (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Issues related to the major religions of India.

*Prerequisite(s): One of Religious Studies 2100 or Religious Studies 2200*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3200/ASIAN STUDIES 3200****Asian Religions and Film (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series examines the interplay between Asian religious traditions and film. Films about Asian religions will be analyzed along with films shaped by Asian religious, philosophical, and aesthetic sensibilities. Hinduism, Buddhism, and East Asian religions will be most prominently represented.

*Prerequisite(s): One of Asian Studies 1000, Religious Studies 2100, Religious Studies 2200, Religious Studies 2330, or Religious Studies 2360*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3300****Studies in East Asian Religions (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Issues related to the major religions of China, Korea and Japan.

*Prerequisite(s): One of Religious Studies 2200, Religious Studies 2330, or Religious Studies 2360*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3350****Studies in Bible (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

The critical study of Jewish and Christian Bibles' literature, theories of composition, original cultural and religious milieus, and history of interpretation, from ancient times to the present.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3400****Studies in Judaism (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected Topics in the history, culture, literature and thought of Judaism, from the formative period to the present.

*Prerequisite(s): Will be specified (including any recommended background) for individual offerings*

*Lib Ed Req: Fine Arts and Humanities*

**RELIGIOUS STUDIES 3501****Studies in Christianity (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected topics in the history, culture, literature and thought of Christianity, from the formative period to the present.

*Prerequisite(s):* One of Religious Studies 1000 or seven courses (21.0 credit hours) in Arts and Science (Additional prerequisites may be specified, including any recommended background, for individual offerings)

*Equivalent:* Any offering in the Religious Studies 3000 Series with the same title as the offering in the Religious Studies 3501 Series

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 3600****Studies in the Islamic Tradition (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the Islamic intellectual tradition, with a focus on one of the subtraditions of theology, philosophy, mysticism, or Quranic commentary. Classical and/or modern Muslim responses to questions pertaining to the nature of ethics, language, revelation, the human being, the cosmos, and God. Emphasis on textual analysis through a close study of important primary sources.

*Prerequisite(s):* Religious Studies 2600

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 4000****Seminars in Religious Studies (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminars in selected areas of Religious Studies.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 4001****Concepts and Methods in the Study of Religion***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination and critique of the basic concepts and methodological approaches in the academic study of religion.

*Prerequisite(s):* Four courses (12.0 credit hours) in Religious Studies

*Lib Ed Req:* Fine Arts and Humanities

**Note:** This course is designed primarily for students who have declared Religious Studies majors and minors.

**RELIGIOUS STUDIES 4110****Seminars in Eastern Religions (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminars featuring selected topics in the history, culture, literature and thought of Eastern Religions, from the formative period to the present.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 4400****Seminars in Western Religions (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Seminars featuring selected topics in the history, culture, literature and thought of Western Religions, from the formative period to the present.

*Prerequisite(s):* Will be specified (including any recommended background) for individual offerings

*Lib Ed Req:* Fine Arts and Humanities

**RELIGIOUS STUDIES 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course. Students will be expected to conduct fieldwork, text or library-based research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours)  
AND  
A cumulative GPA of 3.30 or higher AND  
An Independent Study (3.0 credit hours) in Religious Studies at the 3000 or 4000 level

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Remote Sensing****(RMTS)****Faculty of Arts and Science****REMOTE SENSING 4650****Physics of Remote Sensing***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theoretical and applied treatment of the physical principles of remote sensing. Composition and structure of the earth's atmosphere, radiative transfer principles and their application to remote sensing, radiometric processing, calibration and validation, hyperspectral image processing, absorption line formation and lineshapes, instrumentation for measuring radiation fields, microwave and radar remote sensing, and the retrieval of physical parameters. Selected topics in earth observation and astronomy.

*Prerequisite(s):* Geography 3720

*Equivalent:* Physics 4650 (prior to 2016/2017)

*Lib Ed Req:* Science

**REMOTE SENSING 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours)  
AND  
A cumulative GPA of 3.30 or higher

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

## Sociology (SOCI) Faculty of Arts and Science

### SOCIOLOGY 0520

#### The Sociological Imagination

Credit hours: 3.00

Contact hours per week: 3-0-0

Introduction to the perspectives and methods that sociologists use to study the social life of communities and societies. Processes and patterns of group interaction, and the influence of group power over individual behaviour are examined. Topics such as social stratification, racism, sexuality, work, religion, and the family may be used to illustrate these concepts.

Prerequisite(s): Admission to the Indigenous Student Success Cohort

Equivalent: Sociology 1000

Lib Ed Req: Social Science

**Note:** Sociology 0520 may be used in place of Sociology 1000 in program or major requirements.

### SOCIOLOGY 1000

#### Introduction to Sociology

Credit hours: 3.00

Contact hours per week: 3-0-0

Human social behaviour, the processes and patterns of group interaction and group influence on individual behaviour. Areas of sociological concern such as social organization, social stratification, ethnic relations and family interaction introduce some of the major concepts, theories and procedures of sociological inquiry.

Equivalent: Sociology 0520

Lib Ed Req: Social Science

### SOCIOLOGY 2010

#### Canadian Society

Credit hours: 3.00

Contact hours per week: 3-0-0

The changing structure of Canadian Society and its current social features.

Prerequisite(s): One of Sociology 1000 or a previous course (3.0 credit hours) in Sociology

Lib Ed Req: Social Science

### SOCIOLOGY 2050

#### Social Inequality

Credit hours: 3.00

Contact hours per week: 3-0-0

Analysis of social inequality in contemporary societies. Classical and contemporary theoretical approaches to class, power, and inequality. Empirical studies on inequality. Specific attention to several key sociological concepts, including power, class, gender, race and ethnicity, and the body.

Prerequisite(s): One of Sociology 1000 or Sociology 0520

Lib Ed Req: Social Science

### SOCIOLOGY 2100

#### Research Methodology

Credit hours: 3.00

Contact hours per week: 3-0-0

Introduction to the philosophy of social scientific investigation; concepts and methods of qualitative and quantitative research.

Prerequisite(s): One of Sociology 1000 or a previous course (3.0 credit hours) in Sociology

Lib Ed Req: Social Science

### SOCIOLOGY 2130

#### Quantitative Research Practice

Credit hours: 3.00

Contact hours per week: 3-2-0

A general introduction to the practice of social statistics, with an emphasis on the use and implementation of basic quantitative procedures to analyze social data.

Prerequisite(s): One of Sociology 1000 or Sociology 0520

Mutually Exclusive:

Psychology 2030

Recommended Background:

One of Mathematics 30-1,

Mathematics 30-2, Pure

Mathematics 30,

Mathematics 0500, or

Mathematics 0520

Substantially Similar:

Psychology 2030

Lib Ed Req: Social Science

### SOCIOLOGY 2300

#### Committing Sociology

Credit hours: 3.00

Contact hours per week: 3-0-0

Sociology as a way of thinking, theorizing, and analyzing. Students will be required to develop questions about the social world: what it means to examine the world sociologically, what it means to reflect critically on those assumptions, ways of seeing, and the commitments that come with being members of society.

Prerequisite(s): One of Sociology 1000 or Sociology 0520

Lib Ed Req: Social Science

### SOCIOLOGY 2410

#### Sociology of Gender

Credit hours: 3.00

Contact hours per week: 3-0-0

An introduction to sociological perspectives on gender, focusing on the social construction of gendered bodies, subjectivities, desires, sexuality through social interaction, and institutions. Comparative and historical perspectives on gender as foundational to operations of power in western societies.

Prerequisite(s): One of Sociology 1000 or a previous course (3.0 credit hours) in Sociology

Lib Ed Req: Social Science

### SOCIOLOGY 2500

#### Deviance, Conformity and Social Control

Credit hours: 3.00

Contact hours per week: 3-0-0

Normative processes by which deviance is constructed with a particular focus on power as both implicated in, and the outcome of, these processes.

Prerequisite(s): One of Sociology 1000 or a previous course (3.0 credit hours) in Sociology

Lib Ed Req: Social Science

### SOCIOLOGY 2600

#### The Individual and Society

Credit hours: 3.00

Contact hours per week: 3-0-0

Symbolic interaction and theories of the self are studied in the context of shifting interrelationships between the individual and society, from institutions to networks and from face-to-face to digitally-mediated interactions.

Prerequisite(s): One of Sociology 1000 or a previous course (3.0 credit hours) in Sociology

Lib Ed Req: Social Science

**SOCIOLOGY 2700/HEALTH SCIENCES 2700****Health and Society***Credit hours: 3.00**Contact hours per week: 3-0-0*

Sociological perspectives on health and wellness within Canadian and global contexts. The relationship between social organization and health; social constructions and meanings of health; social epidemiology; health beliefs and behaviour; and the experience of illness.

*Prerequisite(s): One of Sociology 1000 or Sociology 0520*

*Lib Ed Req: Social Science*

**SOCIOLOGY 2770****The Sociology of Youth***Credit hours: 3.00**Contact hours per week: 3-0-0*

An examination of structures and processes impacting youth in society. Topics may include socialization, the maturation process, youth culture, and adolescence in historical and comparative perspective.

*Prerequisite(s): One of Sociology 1000 or Sociology 0520*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3020****Social Problems***Credit hours: 3.00**Contact hours per week: 3-0-0*

Processes by which social conditions come to be defined as problems, the consequences of these social problems for society and the nature of social reaction.

*Prerequisite(s): One of Sociology 2050 or Sociology 2300*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3050****Sociology of Race and Ethnicity***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examines 'racial' and ethnic difference as social constructs, particularly in relation to prejudice, discrimination, colonialism, assimilation, power, and prestige.

*Prerequisite(s): One 2000-level course (3.0 credit hours) in Sociology*

*Recommended Background: Sociology 2010 AND Sociology 3020*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3110****Survey Research***Credit hours: 3.00**Contact hours per week: 3-0-0*

Interviews and questionnaires in data collection, quantitative data analysis, statistical analysis using computer techniques.

*Prerequisite(s): Sociology 2100*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3120****Qualitative Research Methods***Credit hours: 3.00**Contact hours per week: 3-0-0*

Techniques in qualitative data collection and analysis; interviews, participant observation and unobtrusive methods.

*Prerequisite(s): One of Sociology 2100, Addictions Counselling 3260, or Nursing 3360*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3130****Multivariate Quantitative Research Practice***Credit hours: 3.00**Contact hours per week: 3-0-0*

Statistical procedures commonly used in social science research, with an emphasis on hands-on training on topics related to multivariate research procedures, data sources available for such research, and the implementation of multivariate procedures using statistical software.

*Prerequisite(s): Sociology 2130*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3210****Classical Sociological Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Early theoretical development of sociology as a mode of inquiry and field of study.

*Prerequisite(s): Sociology 2300*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3220****Contemporary Sociological Theory***Credit hours: 3.00**Contact hours per week: 3-0-0*

Recent theoretical developments and diversifications in sociology to the present.

*Prerequisite(s): Sociology 3210*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3310****Sociology of Families***Credit hours: 3.00**Contact hours per week: 3-0-0*

Functions of the family as a social institution. Developmental stages in family life. The changing nature of family and its relationships with society. Changing role relationship involved in family interactions, marital stability, adjustment and breakdown.

*Prerequisite(s): One 2000-level course (3.0 credit hours) in Sociology*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3330****Sociology of Religion***Credit hours: 3.00**Contact hours per week: 3-0-0*

Religion as a cultural and social phenomenon; religious experience and its institutional expression.

*Prerequisite(s): One 2000-level course (3.0 credit hours) in Sociology or Religious Studies*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3340****Medical Sociology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Sociological analysis of Western medicine as knowledge, institutions, practices, and power.

*Prerequisite(s): One 2000-level course (3.0 credit hours) in Sociology*

*Recommended Background: Sociology 2010 AND Sociology 3020*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3360****Political Sociology***Credit hours: 3.00**Contact hours per week: 3-0-0*

Sociological and institutional underpinnings of politics. Theories of political action. Intersection of politics with factors such as class, gender, and ethnicity. Social movements, nationalism, the role of states versus markets, and the power of international corporations.

*Prerequisite(s): One of Sociology 2010, Sociology 2300, or one 2000-level course (3.0 credit hours) in Political Science*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3420****Sociology of Work***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examines trends, structures, and social relations related to paid and unpaid work and labour. Topics may include industrialization, restructuring, globalization, unemployment, gender, technological change, worker-management relations, and family and volunteer work.

*Prerequisite(s): One of Sociology 2050 or Sociology 2300*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3460****Body and Society***Credit hours: 3.00**Contact hours per week: 3-0-0*

The social aspects of bodily expression and repression. Selected theories of the body in socio-historical and cultural contexts. Social institutions and relations concerning reproductive, aging, ill, disabled, gendered, young, and marginalized bodies.

*Prerequisite(s): One of Sociology 2300 or Sociology 2410*

*Lib Ed Req: Social Science*

**SOCIOLOGY 3740****Digital Culture and Society***Credit hours: 3.00**Contact hours per week: 3-0-0*

Social impact and significance of web-based communication media. Critical examination of the implications of cyberspace for sociological concepts and constructs such as culture, community, identity, agency, democracy and education.

*Prerequisite(s): One 2000-level course (3.0 credit hours) in Sociology OR One of Sociology 1000 or Sociology 0520 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**SOCIOLOGY 4100****Advanced Themes in Social Institutions (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of social institutions and the social forces that transform institutions over time and space. May include study of language, gender, families, communities, and markets; and religious, political, and other organizations. Offerings vary depending on student interest and faculty availability.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND*

*Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include two courses (6.0 credit hours) in Sociology at the 3000 level*

*Lib Ed Req: Social Science*

**SOCIOLOGY 4300****Advanced Themes in Bodies and Embodiment (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of the body as culturally, historically, and sociologically situated. Offerings vary depending on student interest and faculty availability.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND*

*Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include two courses (6.0 credit hours) in Sociology at the 3000 level*

*Lib Ed Req: Social Science*

**SOCIOLOGY 4350/****GEOGRAPHY 4350****Population and the Environment***Credit hours: 3.00**Contact hours per week: 3-0-0*

Examination of the complex and reciprocal relationship between population dynamics and the environment. The focus pertains to how people respond to changing environments and how population processes influence the environment. Theoretical approaches and empirical research from a range of social sciences including sociology, geography, demography, human ecology, environmental economics, and political science.

*Prerequisite(s): One of Geography 2210, Geography 2300, Sociology 2050, or Sociology 2300*

*Equivalent: Geography 4850 (Population and the Environment) (prior to 2022/2023); Sociology 4850 (Population and the Environment) (prior to 2022/2023)*

*Lib Ed Req: Social Science*

**SOCIOLOGY 4600****Advanced Themes in Social Control (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of the formal and informal ways in which individuals, groups, and/or subjectivities are produced and constrained. Offerings vary depending on student interest and faculty availability.

*Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND*

*Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include two courses (6.0 credit hours) in Sociology at the 3000 level*

*Lib Ed Req: Social Science*

**SOCIOLOGY 4700****Advanced Themes in Culture (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of advanced themes in culture. Offerings vary depending on student interest and faculty availability.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) AND  
Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include two courses (6.0 credit hours) in Sociology at the 3000 level

*Lib Ed Req:* Social Science**SOCIOLOGY 4800****Advanced Themes in Population Studies (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study of subjects such as contemporary social, economic, and environmental issues of global populations. Offerings vary depending on student interest and faculty availability.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) AND  
Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include two courses (6.0 credit hours) in Sociology at the 3000 level

*Lib Ed Req:* Social Science**SOCIOLOGY 4900****Advanced Themes in Social Theory and/or Methods (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Senior seminars involving intensive and rigorous study on a selected theme in social theory and/or methods. Offerings vary depending on student interest and faculty availability.

*Prerequisite(s):* Third-year standing (a minimum of 60.0 credit hours) AND  
Additional prerequisites will be specified, including any recommended background, for individual offerings, but will normally include two courses (6.0 credit hours) in Sociology at the 3000 level

*Lib Ed Req:* Social Science**SOCIOLOGY 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a research-oriented course in which students will conduct fieldwork, text or library-based research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours) AND  
A cumulative GPA of 3.30 or higher AND  
One of Sociology 3110 or Sociology 3120 AND  
Three additional courses (9.0 credit hours) in Sociology at the 3000 or 4000 level

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Spanish (SPAN)**  
**Faculty of Arts and Science**

**SPANISH 1000****Beginners' Spanish I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Fundamentals of spoken and written Spanish.

*Lib Ed Req:* Fine Arts and Humanities

**Note:** For students with little or no knowledge of Spanish. To confirm enrolment and placement, all students must complete the Spanish Student Information Form and then, if required, the placement test, before the first day of classes. Credit for Spanish 1000 will not normally be granted to students with Spanish 30-3Y, 20-6Y, 30-6Y, 10-9Y, 20-9Y, 30-9Y, or equivalent. Students may be able to take this course for credit with permission of the Department of Modern Languages if high school Spanish courses were completed more than five years ago.

**SPANISH 1100****Beginners' Spanish II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Continuation of Spanish 1000.

*Prerequisite(s):* One of Spanish 1000, Spanish 20-6Y, or Spanish 30-3Y

*Lib Ed Req:* Fine Arts and Humanities

**Note:** To confirm enrolment and placement, all students must complete the Spanish Student Information Form and then, if required, the placement test, before the first day of classes. Credit for Spanish 1100 will not normally be granted to students with Spanish 10-9Y, 20-9Y, 30-6Y, or equivalent. Students may be able to take this course for credit with permission of the Department of Modern Languages if high school Spanish courses were completed more than five years ago. Students who have fluent oral skills should contact the Department of Modern Languages for proper placement.

**SPANISH 2010****Intermediate Language I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Development of language skills: oral expression, listening comprehension, reading, and writing.

*Prerequisite(s):* One of Spanish 1100, Spanish 10-9Y, Spanish 20-9Y, or Spanish 30-6Y

*Equivalent:* Spanish 1500 (prior to 2019/2020)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** To confirm enrolment and placement, all students must complete the Spanish Student Information Form and then, if required, the placement test, before the first day of classes. Credit for Spanish 2010 will not normally be granted to students with Spanish Language Arts 30, Spanish 30-9Y, or equivalent. Students may be able to take this course for credit with permission of the Department of Modern Languages if high school Spanish courses were completed more than five years ago. Students who have fluent oral skills should contact the Department of Modern Languages for proper placement.

**SPANISH 2020****Intermediate Language II***Credit hours: 3.00**Contact hours per week: 3-0-0*

The finer points of grammar; refinement of writing style. Further training in the skills of speaking, reading, and listening comprehension.

*Prerequisite(s):* One of Spanish 2010, Spanish 30-9Y, or Spanish Language Arts 30

*Equivalent:* Spanish 2000 (prior to 2019/2020)

*Lib Ed Req:* Fine Arts and Humanities

**Note:** To confirm enrolment and placement, all students must complete the Spanish Student Information Form and then, if required, the placement test, before the first day of classes. Students who have fluent oral skills should contact the Department of Modern Languages for proper placement.

**SPANISH 2100****Fundamentals of Spanish Communication***Credit hours: 3.00**Contact hours per week: 3-0-0*

Development of basic oral communicative abilities in Spanish with emphasis on conversational skills. Reading and writing skills also introduced.

*Prerequisite(s):* Spanish 1100

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Not for native or heritage speakers or for students with intermediate or advance oral fluency.

**SPANISH 2250****Spanish Immersion***Credit hours: 3.00*

*Other hours per term:* Immersion in a Spanish/ Spanish American milieu

Academic and living experiences in a Spanish/Spanish American milieu. Institution to be approved by the Department. For students taking part in the Spanish Visiting Student Programme only.

*Prerequisite(s):* Spanish 2020 with a minimum 'C-' grade AND Second-year standing (a minimum of 30.0 credit hours)

*Grading:* Pass/Fail

*Lib Ed Req:* Fine Arts and Humanities

**SPANISH 2300****Introduction to Hispanic Literature and Literary Analysis***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to the study of literature and major literary theories and their application through the study of Spanish and/or Spanish-American prose, poetry, and drama.

*Prerequisite(s):* Spanish 2020

*Lib Ed Req:* Fine Arts and Humanities

**SPANISH 3001****Advanced Language***Credit hours: 3.00**Contact hours per week: 3-0-0*

Structural and stylistic nuances of Spanish.

*Prerequisite(s):* Spanish 2020

*Lib Ed Req:* Fine Arts and Humanities

**SPANISH 3002****Spanish for Professional Contexts***Credit hours: 3.00**Contact hours per week: 3-0-0*

Expansion of vocabulary, and reading and writing activities in four professional areas: science, education, business, and tourism.

*Prerequisite(s):* Spanish 2020

*Lib Ed Req:* Fine Arts and Humanities

**Note:** Not open to native or semi-native speakers of Spanish.

**SPANISH 3100****Survey of Literature from Spain and Spanish America***Credit hours: 3.00**Contact hours per week: 3-0-0*

General overview of periods, trends and genres in Spanish peninsular literature and Spanish-American literature through representative works, beginning in the Middle Ages. Improvement of skills in literary analysis, as well as reading and writing skills in the Spanish language.

*Prerequisite(s):* Spanish 2300

*Lib Ed Req:* Fine Arts and Humanities

**SPANISH 3501****Seminar in Literature (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Selected and representative works of major authors or literary movements of a specific period or century.

*Prerequisite(s):* Spanish 2300

*Lib Ed Req:* Fine Arts and Humanities

**SPANISH 3600****Culture and Civilization***Credit hours: 3.00**Contact hours per week: 3-0-0*

Text and film-based study of aspects of Spanish-American culture and civilization after the wars of independence (post-1800).

*Prerequisite(s):* Spanish 2020

*Equivalent:* Spanish 2200 (prior to 2019/2020)

**SPANISH 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work.

*Prerequisite(s):* Fourth-year standing (a minimum of 90.0 credit hours)  
AND  
A cumulative GPA of 3.30 or higher

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

**Statistics****(STAT)****Faculty of Arts and Science****STATISTICS 1770****Introduction to Probability and Statistics***Credit hours: 3.00**Contact hours per week: 3-0-1*

Descriptive statistics and graphical representation. Measure of central tendency and dispersion. Elementary probability. Discrete and continuous random variables. Expectation. Binomial, normal and Student's t-distribution. Large and small sample inference and estimation. Central Limit Theorem.

*Prerequisite(s):* One of Mathematics 30-1, Mathematics 30-2, Pure Mathematics 30, Mathematics 0500, Mathematics 0520, admission to the Post-Diploma B.A. in Agricultural Studies, admission to the Post-Diploma B.Sc. in Agricultural Studies, or admission to the B.Sc. in Environmental Science

*Lib Ed Req:* Science



**STATISTICS 2200****Survey Design and Analysis***Credit hours: 3.00**Contact hours per week: 3-0-0*

Simple random sampling. Stratified sampling. Systematic and cluster sampling. Ratio, regression, and difference estimators.

*Prerequisite(s): Statistics 1770**Lib Ed Req: Science***STATISTICS 2780****Statistical Inference***Credit hours: 3.00**Contact hours per week: 3-0-1*

Hypothesis testing. Comparison of variances. Chi-square distribution. Contingency tables. Elementary design of experiments. Random sampling. Analysis of variance. Regression and correlation. Examples to illustrate the theory are drawn from a wide variety of fields.

*Prerequisite(s): Statistics 1770**Mutually Exclusive:**Economics 2900**Substantially Similar:**Economics 2900**Lib Ed Req: Science***STATISTICS 3500****Mathematical Probability***Credit hours: 3.00**Contact hours per week: 3-0-0*

Sample spaces and the algebra of sets. Kolmogorov axioms for probability. Probability density/distribution functions (pdfs) and cumulative distribution functions (cdfs). Joint and marginal pdfs. Combining and transforming random variables. Moment generating functions (mgfs) and factorial generating functions. Applications to discrete and continuous random variables. Central limit theorem. Order statistics.

*Prerequisite(s): One of Mathematics 2560 or Mathematics 2565 AND Statistics 1770**Recommended Background:**Statistics 2780**Lib Ed Req: Science***STATISTICS 3510****Mathematical Statistics***Credit hours: 3.00**Contact hours per week: 3-0-0*

Estimating parameters and the fitting of probability distributions. Maximum likelihood estimators and the method of moments. Properties of estimators, including unbiasedness, sufficiency, and consistency. Large sample theory for estimators. Concepts and theory of statistical hypothesis testing. Distributions derived from the Normal distribution. Comparing two samples through hypothesis tests and confidence intervals. Analysis of variance and linear regression.

*Prerequisite(s): Statistics 3500**Recommended Background:**Statistics 2780**Lib Ed Req: Science***STATISTICS 3700****Design and Analysis of Experiments***Credit hours: 3.00**Contact hours per week: 3-1-0*

Basic principles of experimental design. Completely randomized designs. Complete and incomplete block designs. Regression. Analysis of variance and analysis with covariates. Contrasts and multiple comparisons. Factorial models. Random effects and fixed effects. Nested designs, split plot designs and related designs.

*Prerequisite(s): One of Statistics 2780 or Economics 2900**Substantially Similar:**Biology 4810**Lib Ed Req: Science***STATISTICS 4995****Undergraduate Thesis***Credit hours: 6.00**Contact hours per week: Variable*

This is a challenging, work-intensive, research-oriented course in which students will conduct fieldwork, text, library-based or empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.30 or higher*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

**Therapeutic Recreation****(TREC)***Faculty of Health Sciences***THERAPEUTIC RECREATION 3000  
Foundations of Therapeutic Recreation***Credit hours: 3.00**Contact hours per week: 3-0-0*

Foundations of therapeutic recreation, including models of service, definitions and benefits of therapeutic recreation, the history and development of the profession and the nature of therapeutic recreation service.

*Prerequisite(s): Admission to the Bachelor of Therapeutic Recreation program*

**THERAPEUTIC RECREATION 3100  
Program Planning in Therapeutic Recreation***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-10*

Overview of development, application and evaluation of therapeutic recreation programming. Development and on-going assessment of programs will be explored through theoretical and practical situations.

*Prerequisite(s): Admission to the Bachelor of Therapeutic Recreation program*

**THERAPEUTIC RECREATION 3200  
Introduction to Recreation and Leisure: Across the Life Course***Credit hours: 3.00**Contact hours per week: 3-0-0**Other hours per term: 0-0-10*

Examination of the characteristics, evolution and functions of leisure in Canada. Review of relationships between leisure and time, play, work, health, family, education, ethnicity, gender and the environment. Discussion of recreation and leisure resources explored across the life course.

*Prerequisite(s): Admission to the Bachelor of Therapeutic Recreation program*

### **THERAPEUTIC RECREATION 3300** **Processes and Techniques in Therapeutic Recreation**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Focus on advanced study in the theoretical and practical aspects of procedures necessary for assessment, planning, implementation, management and evaluation specific to therapeutic recreation services. Contemporary research outcomes that influence the application of professional practice will be utilized.

*Prerequisite(s): Therapeutic Recreation 3000*

### **THERAPEUTIC RECREATION 3400** **Facilitation of Therapeutic Recreation Interventions**

*Credit hours: 3.00*

*Contact hours per week: 3-0-1*

This course will explore facilitation techniques, including processing and building rapport and trust with individuals and groups, when implementing a variety of evidence-based therapeutic recreation treatment interventions. This course is designed to be hands-on and students will be tasked with facilitating mock interventions with their peers.

*Prerequisite(s): Therapeutic Recreation 3100*

### **THERAPEUTIC RECREATION 3500** **Therapeutic Recreation for Diverse Populations**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Other hours per term: 0-0-10*

This course introduces the characteristics and needs of individuals with various abilities as they relate to Therapeutic Recreation domains of service delivery.

*Prerequisite(s): Admission to the Bachelor of Therapeutic Recreation program*

### **THERAPEUTIC RECREATION 3700** **Communication and Counselling Techniques in Therapeutic Recreation**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This course provides students with the knowledge and skills required to utilize effective communication and helping behaviours designed to facilitate change in the leisure behaviour of individuals with diverse needs. We will explore communication and counselling techniques that enable TR professionals to build rapport and develop trust with individuals and groups.

*Prerequisite(s): Admission to the Bachelor of Therapeutic Recreation program*

### **THERAPEUTIC RECREATION 4000** **Issues and Trends in Therapeutic Recreation**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Contemporary issues in the field of therapeutic recreation including such areas as psycho-social, legal and structural, and increasing diversity trends in the field and its regulation will be examined through contemporary research and student-based research projects.

*Prerequisite(s): Therapeutic Recreation 3300*

### **THERAPEUTIC RECREATION 4100** **Research Design in Therapeutic Recreation**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

A practical understanding of research methodologies relevant to therapeutic recreation. Advanced application of current assessment and evaluation instruments.

*Prerequisite(s): Therapeutic Recreation 3000 AND Therapeutic Recreation 3200*

### **THERAPEUTIC RECREATION 4200** **Administration in Therapeutic Recreation**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

*Other hours per term: 0-0-10*

Essential management and effective practices of therapeutic recreation in clinical, health care facility, and community-based leisure and/or health care service settings are examined. Students focus on specific administrative functions including Operational Management, Human Services Management, and Client/Consumer Management.

*Prerequisite(s): Therapeutic Recreation 3300 AND Admission to the Bachelor of Therapeutic Recreation program.*

### **THERAPEUTIC RECREATION 4300** **Modalities, Interventions and Facilitation Techniques in Therapeutic Recreation**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

In this course, students will explore a wide variety of modalities and facilitation techniques used by therapeutic recreation professionals in their implementation of evidenced-based therapeutic recreation interventions for individuals and groups.

*Prerequisite(s): Therapeutic Recreation 3700*

## **THERAPEUTIC RECREATION 4550** **Internship in Therapeutic Recreation**

*Credit hours: 15.00*

*Other hours per term: 0-0-560*

Students will develop and practice skills under the direct supervision of a Certified Therapeutic Recreation Specialist.

*Prerequisite(s): Therapeutic Recreation 3000*

AND

*Therapeutic Recreation 3100*

AND

*Therapeutic Recreation 3200*

AND

*Therapeutic Recreation 3300*

AND

*Therapeutic Recreation 3500*

AND

*Therapeutic Recreation 4000*

AND

*Therapeutic Recreation 4100*

AND

*Therapeutic Recreation 4200*

AND

*One of Therapeutic*

*Recreation 3400 or*

*[Therapeutic Recreation 3700*

*and Therapeutic*

*Recreation 4300] AND*

*A minimum cumulative GPA of 2.50 in Therapeutic Recreation courses.*

*Grading: Pass/Fail*

**Note:** It is strongly recommended that students complete all other degree requirements prior to enrolling in this course.

## **THERAPEUTIC RECREATION 4900** **Alternative Modalities (Series)**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Courses in this series will focus on unique therapeutic modalities that can be applied in Therapeutic Recreation programming development.

*Prerequisite(s): Admission to the Bachelor of Therapeutic Recreation program*

## **Urban and Regional Studies**

(UBRE)

*Faculty of Arts and Science*

## **URBAN AND REGIONAL STUDIES 4995**

### **Undergraduate Thesis**

*Credit hours: 6.00*

*Contact hours per week: Variable*

This is an intensive, research-oriented course in which students will conduct empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND*

*A cumulative GPA of 3.30 or higher AND*

*One Independent Study (3990) or Applied Study (3980) course (3.0 credit hours) with an Urban and Regional Studies focus AND*

*Approval of the Coordinator of Urban and Regional Studies*

**Note:** *Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.*

## **Women and Gender Studies**

(WGST)

*Faculty of Arts and Science*

## **WOMEN AND GENDER STUDIES 1000**

### **Introduction to Women and Gender Studies**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An introduction to the intersectional analysis of women and gender in differing social locations from the historical to the contemporary period using critical feminist perspectives.

*Lib Ed Req: Social Science*

## **WOMEN AND GENDER STUDIES 2100/HEALTH SCIENCES 2600**

### **Women and Health**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Concerns of women in health and illness are explored in relation to current formal and informal health care practices.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Social Science*

## **WOMEN AND GENDER STUDIES 2300**

### **Feminist Theoretical Frameworks**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Exploration of histories and contemporary applications of feminist theories, including the politics of knowledge production and the contributions to social change.

*Recommended Background:*

*Women and Gender Studies 1000*

*Lib Ed Req: Social Science*

## **WOMEN AND GENDER STUDIES 2600**

### **Activism and Advocacy**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Exploration of the link between feminist theoretical perspectives and practice across historical periods and settings. Evaluation of the ways in which feminist consciousness shapes and transforms local, national, and transnational activism. Utilizing experiential learning, students gain first-hand knowledge of viable forms of advocacy for social justice and equity.

*Recommended Background:*

*Women and Gender Studies 1000*

*Lib Ed Req: Social Science*

## **WOMEN AND GENDER STUDIES 2700**

### **Feminist Approaches to Research**

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Introduction to feminist epistemologies and approaches to research. Experiential knowledge about key issues in feminist research including methodologies, ethics, and reflexivity.

*Recommended Background:*

*One of Women and Gender Studies 1000 or Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Social Science*

## WOMEN AND GENDER STUDIES 2800/HISTORY 2800

### History of Women

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

The lives and diversity of women across North America or Europe from the 15th Century to contemporary times. Organized around major themes rather than a chronology of events, topics may include the impact of industrialization and urbanization on women and families; women's reproductive behaviour and labour; suffrage, citizenship and the nation; women's access to education; and community and social activism.

*Prerequisite(s): One course (3.0 credit hours) in History at the 1000 level or Women and Gender Studies 1000*

*Recommended Background:*  
*History 2222*

*Lib Ed Req: Fine Arts and Humanities*

## WOMEN AND GENDER STUDIES 3020

### Gender and Globalization (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Examination of how gender and local communities are impacted by globalization. Individual offerings include transnationalism; feminist political economy; sex trade and tourism; labour and migration.

*Recommended Background:*  
*Women and Gender Studies 1000 AND Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Social Science*

**Note:** Gender-based courses in other disciplines may be appropriate background preparation for this course. Please contact the Department of Women and Gender Studies for more information.

## WOMEN AND GENDER STUDIES 3040

### The Politics of Representation (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This series examines myriad ways women have been represented and how they have resisted or challenged those representations in various cultural forms and practices. Individual offerings will focus on or include areas such as popular culture, media, sexualities, literature, visual arts, performing arts, law, internet, fashion, cosmetic industries, and the impact of advertising and marketing on young girls.

*Prerequisite(s): Women and Gender Studies 1000 or a previous course in Women and Gender Studies AND Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Social Science*

**Note:** Gender-based courses in other disciplines may be appropriate background preparation for this course. Please contact the Department of Women and Gender Studies for more information.

## WOMEN AND GENDER STUDIES 3050

### Sex and Spiritualities (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This series explores the relationship between faith, spirituality, and sexuality among world and indigenous religious traditions and new religious movements. Individual offerings will focus on or include areas such as religious gender ideologies, rites of passage into adulthood, sexual prohibitions and taboos, mysticism, and images of the divine as feminine and masculine.

*Prerequisite(s): Women and Gender Studies 1000 or a previous course in Women and Gender Studies AND Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Social Science*

**Note:** Gender-based courses in other disciplines may be appropriate background preparation for this course. Please contact the Department of Women and Gender Studies for more information.

## WOMEN AND GENDER STUDIES 3070

### Social Justice and the State (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Offerings address the role of the state in organizing gender, racial, sexual, and national relations of power. Areas include reproductive justice, labour, sovereignties, sexual rights, marriage, and militarism.

*Prerequisite(s): Second-year standing (a minimum of 30.0 credit hours)*

*Lib Ed Req: Social Science*

**Note:** Gender-based courses in other disciplines may be appropriate background preparation for this course. Please contact the Department of Women and Gender Studies for more information.

## WOMEN AND GENDER STUDIES 3100

### Reproductive Justice, Health, and Histories

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Topical themes around reproductive justice, health, and histories. Evolving global, social, political, and policy context employed to define or control reproductive bodies. Issues addressed include eugenics and racialized bodies, sterilization, surrogacy, adoption, midwifery, reproductive technologies, anti-abortion activism, access and barriers to reproductive health care, and sex education in public school curriculum or in the digital sphere.

*Prerequisite(s): Women and Gender Studies 1000 or a previous course in Women and Gender Studies AND second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Women and Gender Studies 3010 (Reproductive Rights, Behaviours and History) (prior to 2021/2022); Women and Gender Studies 3010 (History of Reproductive Rights and Behaviours) (prior to 2021/2022)*

*Lib Ed Req: Social Science*

## WOMEN AND GENDER STUDIES 3150/ASIAN STUDIES 3150

### Gender and Asia (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

This series examines the complex intersections of gender in the Asian context. Individual course offerings will focus on, but not be limited to, the following: development and economy, cross-border migration, militarization and regional conflicts, impact of globalization, culture and politics, youth and democratization, environment and sustainability, tradition and sexualities, science and modernization, and social justice movements.

*Prerequisite(s): One of Women and Gender Studies 1000 or Asian Studies 1000*

*Lib Ed Req: Social Science*

## WOMEN AND GENDER STUDIES 3245/POLITICAL SCIENCE 3245

### The Charter, Gender, and Social Change

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

An interdisciplinary examination of the relationship between the Canadian Charter of Rights and Freedoms, gender, and social change that includes: theories of the legitimacy of judicial review; analyses of selected sections of the Constitution Act through Supreme Court and appellate court decisions; contemporary critical race, postcolonial, gender, sexualities, Indigenous and legal literatures that address intersecting forms of discrimination; current issues that highlight the role of law as a means of social control and political contestation; analyses of selected statutes, regulations and the facts presented to courts.

*Prerequisite(s): One of Political Science 1000, Political Science 2210, or Women and Gender Studies 1000*

*Lib Ed Req: Social Science*

## WOMEN AND GENDER STUDIES 3333/GEOGRAPHY 3333

### Geography of Borders and Displacement

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Overview of critical theoretical and methodological approaches to understanding borders, displacements, and nation-states in historical and contemporary contexts. Key concepts from the field of political geography including sovereignty, territoriality, settler colonialism, nationalism, governance, migration, transnationalism, citizenship, and security. While focused on the Canadian context, the course addresses global examples as relevant and brings Indigenous, settler colonial, and migration histories and geographies into conversation.

*Prerequisite(s): One of Geography 1200, Women and Gender Studies 1000, Anthropology 1000, Sociology 1000, or Political Science 1000 AND Second-year standing (a minimum of 30.0 credit hours)*

*Equivalent: Geography 3850 (Political Geography: Borders and Displacement) (prior to 2021/2022); Geography 3850 (Geography of Borders) (prior to 2021/2022)*

*Lib Ed Req: Social Science*

## WOMEN AND GENDER STUDIES 4900

### Senior Seminar in Women and Gender Studies (Series)

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Seminar for advanced investigation of specific topics or current issues in Women and Gender Studies.

*Prerequisite(s): One of Women and Gender Studies 2300 or Women and Gender Studies 2700 AND Third-year standing (a minimum of 60.0 credit hours)*

*Lib Ed Req: Social Science*

**Note:** Gender-based courses at the 2000 level or higher in other disciplines may be appropriate background preparation for this course. Please contact the Department of Women and Gender Studies for more information.

## WOMEN AND GENDER STUDIES 4995

### Undergraduate Thesis

*Credit hours: 6.00*

*Contact hours per week: Variable*

This is a research-oriented course in which students will conduct empirical research, submit a report in the form of an Undergraduate Thesis which will be made publicly available, and report orally on the work. In consultation with their Thesis Supervisor, students will define a research problem and formulate a research plan.

*Prerequisite(s): Fourth-year standing (a minimum of 90.0 credit hours) AND A cumulative GPA of 3.30 or higher AND A cumulative GPA of 3.50 or higher on all Women and Gender Studies courses*

**Note:** Contact hours will vary. Students should be aware that this course involves regular contact with the Thesis Supervisor as well as considerable independent work.

## Writing

*Faculty of Arts and Science*

**(WRIT)**

## WRITING 0520

### Preparation for Academic Reading and Writing

*Credit hours: 3.00*

*Contact hours per week: 3-0-0*

Preparation for reading and writing at a university level. Students will learn strategies for critical reading and analysis, summary, persuasion, source evaluation, research writing, and editing.

*Prerequisite(s): Admission to the Indigenous Student Success Cohort*

*Equivalent: Writing 0500 (prior to 2016/2017)*

*Lib Ed Req: Fine Arts and Humanities*

**WRITING 1000****Introduction to Academic Writing***Credit hours: 3.00**Contact hours per week: 3-0-0*

Using a genre-based, writing-across-the-curriculum approach, this course addresses the range of skills that students need to be successful academic readers and writers across the disciplines in the modern research university. This includes practice related to the techniques of summary, citation, analysis, synthesis, academic argumentation, revision, scholarly research, and academic writing conventions.

*Mutually Exclusive:**Writing 1200**Substantially Similar:**Writing 1200;**Writing 1850 (Writing for Engineering Students) (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***WRITING 1200****Writing for Engineering Students***Credit hours: 3.00**Contact hours per week: 3-0-0*

Effective written and oral communication. Focus on fundamental writing skills, including building effective sentences and paragraphs, and on clear communication across a range of genres and media used in academic and professional contexts, including correspondence and presentations. Principles of information gathering, analysis, and citation.

*Prerequisite(s): Admission to the Engineering Program**Mutually Exclusive:**Writing 1000**Equivalent: Writing 1850 (Writing for Engineering Students) (prior to 2019/2020)**Substantially Similar:**Writing 1000**Lib Ed Req: Fine Arts and Humanities***WRITING 2000****Writing in the Disciplines (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Theoretical and practical instruction in writing across the various disciplines and discourse communities that comprise the university. Offerings will depend upon faculty availability and will explore issues related to research and professional writing and rhetoric in a particular discipline.

*Prerequisite(s): Writing 1000**Lib Ed Req: Fine Arts and Humanities***WRITING 3000/LIBERAL****EDUCATION 3000****Writing in the Modern Research University***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of the pivotal role writing plays in the modern research university in the construction of the social roles and identities of academics and of academic knowledge itself; the idea of 'disciplinarity'; the different disciplines in the modern research university; and the different ways these disciplines view research, value types of knowledge, understand the role of the researcher in knowledge-making, and work with the challenges of translating that knowledge for non-expert use. Special attention will also be paid to academic writing as a tool used to exclude or marginalize certain knowledges, and the role of writing in Indigenizing the university and in making the university a more ethical, inclusive research space.

*Prerequisite(s): Writing 1000 AND**Liberal Education 1000**Lib Ed Req: Fine Arts and Humanities*



# AWARDS AND SCHOLARSHIPS

<b>I. APPLICATION FOR AWARDS .....</b>	<b>528</b>	<b>3. FINANCIAL ASSISTANCE.....</b>	<b>531</b>
a. Introduction.....	528	a. Repayment.....	531
b. Eligibility.....	528	b. Withdrawal While on Full-time Student	
c. Measuring Academic Performance for		Loans.....	531
Scholarship Purposes .....	529	c. Incomplete (I) and Continuing (X) Grades..	531
d. Disclaimer .....	529	d. Emergency Student Assistance .....	531
e. Definition of Terms.....	530		
<b>2. AWARDS .....</b>	<b>530</b>		
a. Entrance Awards.....	530		
b. Undergraduate Awards .....	531		



## I. APPLICATION FOR AWARDS

### a. Introduction

These guidelines are intended to ensure consistency and equity in the administration of awards and financial aid. The guidelines also assist students in developing an argument to defer or appeal an award decision. The Student Awards Committee is at liberty to set these guidelines aside when extenuating circumstances arise.

### b. Eligibility

#### 1. Application and Application Deadlines

To be eligible for awards and scholarships, application forms must be completed and received by Scholarships and Student Finance no later than the designated date. Application forms are available on the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)). Only in circumstances that are substantially beyond the student's control will an appeal be considered for an application submitted after the stated deadline date. Unless otherwise stated, application deadlines are as follows:

Board of Governors' Admission Scholarship

A completed Application for Admission must be received by **December 15**

High School Applicant and Leadership Awards: **March 15**

Transfer Awards: **June 15**

Undergraduate Awards: **May 1**

All online applications close at midnight on the stated deadline. Successful applicants will be notified in August.

When an award recipient is to be nominated and no nomination is received; where appropriate, the University reserves the right to make a selection based on academic achievement.

#### 2. Tenure of Awards

Scholarships administered by the University of Lethbridge are available only to students pursuing University of Lethbridge programs or to students enrolled in recognized professional transfer programs. All awards are contingent upon students proceeding with their University program in the next academic session and are payable only when the student is in actual attendance as a full-time student in a study term at the University of Lethbridge. Students are required to be registered as of August 15.

Exceptions to this requirement are:

- Part-time Awards** - If an award has been granted to a part-time student, the award will be payable when the student is in actual attendance at the University of Lethbridge.
- Immersion Students** - If an award has been granted to a student who will be attending another institution to participate in an approved Visiting Student program, the award will be disbursed to the student. Students must be registered in French 2250 or Spanish 2250 at the University of Lethbridge to receive payment.
- Graduating Students** - If a student has been granted an award designated for a graduating student, the student will receive payment of the award without being required to register in the next academic session.
- Posthumous Awards** - Financial awards will not be disbursed posthumously.

If a student withdraws from full-time studies after having received a payment for an award, unpaid balances of awards outstanding are forfeited.

Grades received in prior years will not be considered a second time for scholarship purposes. Eligibility for future scholarships will be based on future academic achievement.

#### 3. Payment of Awards

- Replacement** - Any award administered by the University of Lethbridge is subject to replacement by an award of equal or greater value.
- Payment Schedule** - Unless otherwise stated, awards adjudicated through the main awards cycle (with deadlines March 15, May 1, or June 15) will be disbursed in two equal payments prior to the fall and spring tuition deadlines. Unless otherwise stated, off cycle awards will be issued in full in the term the application is submitted.
- Students Graduating in December** - If the award is paid in two payments, the student must be registered in both the fall and spring terms. However, students who graduate in December will receive the second payment upon written request and confirmation of a graduation application.
- Deductions** - The University may deduct from award payments any funds owed to the University.
- Note of Appreciation** - Where a donor contact is available, award recipients will be expected to write a note of appreciation to the donor.
- According to Canadian Tax regulations all financial awards granted to a student may be considered taxable income. Students will receive a T4A information slip for awards paid to them in the calendar year (January - December).

#### 4. Deferral

Requests for award deferral are reviewed on a case by case basis and are not granted automatically. Consideration for deferral may be given to students experiencing extenuating circumstances that impact their ability to enroll in courses. It is the student's responsibility to request the deferral of an award, scholarship or bursary **in writing** to the Scholarships and Student Finance office. Documentation may be required. Please note, deferrals cannot extend beyond the academic year in which the award is granted. Deferral requests must be submitted by September 15 of the year in which the award is to be issued:

### c. Measuring Academic Performance for Scholarship Purposes

#### 1. Academic Records

Final official academic transcripts must be received by August 15 in order to receive an award.

#### 2. High School Applicant Awards

These awards are for students entering the University for the first time. Unless otherwise stated, the criterion for awards for new post-secondary students is demonstrated academic achievement. Academic achievement for Alberta high school graduates is based on the admission average, as defined in **Admission (p. 21)**. Unless otherwise stated, the minimum admission average required is 80 percent for scholarships and 70 percent for awards.

Equivalent credentials from other educational jurisdictions will be considered in accordance with the Admission guidelines stated in the University of Lethbridge Undergraduate Calendar and Course Catalogue.

Awards offered to high school applicants based on admission average are subject to cancellation or changes to the award value if final admission averages deviate more than five percent and/or drop below an actual admission average of 80 percent.

#### 3. Transfer Awards

These awards are for students entering the University for the first time and admitted as transfer applicants as defined in **Admission (p. 21)**. Unless otherwise stated, the criterion for transfer awards is demonstrated academic achievement measured by the award transferable GPA as defined in **Definition of Terms (p. 530)**. In the case of scholarships and awards for which the main criterion is academic achievement, consideration is given only to candidates who have successfully completed a minimum of 24.0 credit hours while enrolled in a post-secondary level program. These courses must transfer into the program for which the candidate has been admitted to the University. The minimum award transferable GPA required is 3.50 for scholarships and 3.00 for awards.

#### 4. Post-Diploma Awards

These awards are for students entering the University for the first time and admitted as college diploma applicants as defined in **Admission (p. 21)**. Unless otherwise stated, the criterion for post-diploma awards is demonstrated academic achievement measured by the diploma cumulative program GPA. The minimum cumulative program GPA required is 3.50 for scholarships and 3.00 for awards.

#### 5. Collaborative Program Awards

These awards are for students who have completed their course work at the collaborating college and are starting their full-time course work at the University of Lethbridge. Unless otherwise stated, the criterion for collaborative program awards is demonstrated academic achievement measured by the award transferable GPA as defined in **Definition of Terms (p. 530)**. In the case of scholarships and awards for which the main criterion is academic achievement, consideration is only given to candidates who have successfully completed a minimum of 24.0 credit hours in the preceding fall and spring terms while attending full-time studies at the collaborating college. The minimum award transferable GPA required is 3.50 for scholarships and 3.00 for awards.

#### 6. Undergraduate Awards

These awards are for students who are continuing in full-time studies in their undergraduate degree program. Unless otherwise stated, the criterion for undergraduate awards is demonstrated academic achievement measured by the award GPA as defined in **Definition of Terms (p. 530)**. Consideration is given only to candidates who have successfully completed a minimum of 24.0 credit hours in the last two terms while attending full-time studies at the University of Lethbridge. While 24.0 credit hours is the minimum criterion that applies, all other things being equal, those students taking more than 24.0 credit hours over the academic year will be given priority in the case of a tie. Summer session courses are not calculated in a student's award GPA. Unless otherwise stated the minimum award GPA required is 3.50 for scholarships and 3.00 for awards.

Students who interrupt post-secondary studies and return after an absence shall be considered for University of Lethbridge awards. Evaluation will be based on the student's last year of full-time attendance at the University of Lethbridge subject to the rules guiding Undergraduate Awards.

For award purposes, Pass/Fail courses are included in the 24.0 credit hours; courses designated Credit/Non-Credit are not included in the 24.0 credit hours.

Students with an Incomplete or Continuing grade appearing on their academic transcript in the last two terms will have until **August 15** to complete the course and remain eligible for awards. This guideline applies to all students applying for Undergraduate Awards.

#### 7. Athletic Awards

Athletes must have been enrolled in full-time studies (9.0 credit hours) in each of the previous fall and spring terms while participating on a University of Lethbridge Pronghorn athletic team. Athletes must be pursuing a University of Lethbridge degree or enrolled in a recognized professional transfer program. Unless otherwise stated, the minimum award GPA required is 2.00. All athletic awards are subject to U Sports regulations.

### d. Disclaimer

Since the University of Lethbridge Calendar is published a considerable time before the beginning of the academic year, the University reserves the right to make whatever changes circumstances may require, including cancellation of particular awards or changes to the minimum GPA required for awards.

### e. Definition of Terms

**Note:** Award is used generically throughout Awards and Scholarships to describe non-repayable financial support.

1. **Academic Medals**  
Academic medals are awarded to the most distinguished students graduating from the University of Lethbridge. Medals are presented at spring Convocation and all students who have completed degree requirements between May 1 and April 30 may be considered for medals. Students receiving academic medals are nominated by their respective Faculties/Schools.
2. **Athletic Award**  
An athletic award is non-repayable financial support provided to a student who is participating on a Pronghorn Athletics team and enrolled in full-time studies. Athletic awards are subject to U Sports regulations.
3. **Award**  
An award is non-repayable financial support provided to a student who demonstrates academic achievement and meets additional defined criteria. These criteria may include participation in extracurricular activities, demonstrated leadership, contribution to the campus community and/or the local community, and financial need.
4. **Award Grade Point Average (GPA)**  
For award purposes, the award GPA is calculated on all University of Lethbridge courses completed in the fall and spring terms of the previous academic year with the exception of Audit and Credit/Non-Credit course designation.
5. **Award Transferable Grade Point Average (GPA)**  
For award purposes, the award transferable GPA is calculated on all transferable courses that were completed.
6. **Bursary**  
A bursary is non-repayable financial support provided to a student who demonstrates financial need and who is in good standing academically.
7. **Course Load Requirements**  
To be considered eligible for most undergraduate and transfer awards at the University of Lethbridge, candidates must have successfully completed a minimum of 24.0 credit hours in the previous fall and spring terms.
8. **Deferral**  
A deferral is a postponement of a payment of an award, scholarship, or bursary until the student is registered full-time in credit courses at the University of Lethbridge.
9. **Full-Time**  
An undergraduate student is considered to be in full-time studies when enrolled in a minimum of 9.0 credit hours in a fall or spring term.
10. **High School Applicant Awards**  
High School Applicant Awards are available for students admitted to the University of Lethbridge on the basis of their high school credentials. Students may complete a maximum of two transferable post-secondary courses and still remain eligible for High School Applicant Awards.
11. **Prize**  
A prize is awarded for outstanding achievement in a course or a set of courses or an academic competition. A prize may be monetary or a gift-in-kind.
12. **Scholarship**  
A scholarship is non-repayable financial support provided to a student primarily on the basis of academic achievement. Additional defined eligibility or criteria may include program, year of program, major, demonstrated leadership, or artistic excellence.
13. **Nominated Awards**  
Nominated awards are adjudicated by a selection committee either from a specific department, Faculty or School. Unless otherwise stated, these are included in the main award cycle (spring term) and often do not require an application.

## 2. AWARDS

A wide range of awards and bursaries are available to undergraduate students based on academic achievement, leadership potential, community involvement, specific areas of interest or skill, as well as financial need. A complete listing of awards available to undergraduate students administered by the University of Lethbridge can be found at [uleth.academicworks.ca](http://uleth.academicworks.ca).

### a. Entrance Awards

Entrance awards include Board of Governors' Admission scholarship, leadership scholarships, awards for High School Applicants, and transfer scholarships. These awards are for students entering an undergraduate program at the University for the first time and, except for the transfer scholarships, for those without previous participation in a post-secondary program.

High school students participating in dual credit programs may be eligible for high school entrance awards. High school grades will be used to determine award eligibility.

Students who are participating in dual admission may be eligible for transfer awards. Transfer grades will be used to determine award eligibility.

While not all awards require the applicant to apply, application is strongly recommended for students who feel that they may qualify for scholarships. Award applicants must submit a complete Application for Admission to Student Enrolment and Registrar Services by the appropriate application deadline, and ensure that Student Enrolment and Registrar Services receives all admission documents by the appropriate official document deadline. Students need not have been accepted for admission to the University prior to applying for entrance awards, but students must have applied for admission prior to applying for awards.

For further information regarding policies affecting entrance awards, please refer to **Application for Awards (p. 528)**.

#### b. Undergraduate Awards

Undergraduate awards include general awards and scholarships, Faculty-, School-, or program-specific awards, and Athletic awards. These awards are for students continuing in full-time studies in their undergraduate degree program at the University.

For further information regarding policies affecting undergraduate awards, please refer to **Application for Awards (p. 528)**.

### 3. FINANCIAL ASSISTANCE

Information regarding part or full-time government student financial assistance programs are available at the Scholarships and Student Finance office. General eligibility for full-time assistance is:

- Canadian Citizen or Permanent Resident of Canada;
- a valid Social Insurance Number;
- study in an approved post-secondary program of at least 12 weeks in length;
- courses must be applied to a recognized degree; and
- demonstrated financial need.

Most government financial aid programs are need-based. Students apply for the program through a provincial/territorial application form. One application encompasses the Canada Student Loans and Grants program and provincial/territorial loans and grants. Scholarships and Student Finance will assist students to determine which application to use. Students must apply yearly (Sept-April) to the province/territory in which they are considered a resident, not necessarily the province/territory they are attending school in. Summer loans require a separate application. A confirmation of enrolment is required if no loan is required to prevent entering repayment.

The following websites have more information on government financial assistance programs for students:

- Alberta residents: [www.studentaid.alberta.ca](http://www.studentaid.alberta.ca)
- All other provincial/territory links can be accessed from: [www.esdc.gc.ca/en/student\\_loans/provincial.page](http://www.esdc.gc.ca/en/student_loans/provincial.page)
- U.S. loans: The University of Lethbridge does not participate in the U.S. Department of Education (USDE) Federal Student Aid programs. A *Confirmation of Enrolment* (continuation of studies) for USDE loans are available

#### a. Repayment

Students are responsible for repaying their student loans. However, loans are not repayable during periods of full-time studies and for six months after graduation or withdrawal. In certain cases, repayment may be deferred for additional periods after the six months' exemption, upon successful application for the Repayment Assistance Program via the National Student Loan Service Centre.

#### b. Withdrawal While on Full-time Student Loans

Students must remain a full-time (min. 9.0 credit hours per term) throughout the funded period of study. If a student withdraws or drops below full-time standing, the following may occur: the student may be required to repay some or all funding received; grant money may be converted to loan money; second disbursement of the loan will be cancelled; repeated withdrawals may result in a 12 month suspension. Students must reply for a new loan upon return to full-time studies. Part-time funding programs are available for students who are studying part-time.

#### c. Incomplete (I) and Continuing (X) Grades

Courses used in one term to determine eligibility for student loan purposes cannot be used in subsequent terms toward a student's full-time registration. Independent Studies and Applied Studies courses are classified as one course and can only be used in one term to determine eligibility for student loan purposes. Students taking more than one term to complete these courses should plan their subsequent term schedules accordingly.

#### d. Emergency Student Assistance

The purpose of the fund is to provide temporary assistance to full-time University of Lethbridge students to meet expenses related to an unexpected shortfall in their personal finances or an unanticipated delay in their receipt of financial assistance funding.

An emergency is defined as an unexpected shortfall in finances that has caused an inability to meet the rent payments when due, lack of adequate food supplies, and any other type of expenses related to the necessities of life that cannot be delayed. Students will not receive emergency financial assistance to cover registration deposits, tuition fees, books, fines, or debts to other University departments.

Emergency loans or bursaries are available to assist students experiencing delays in the normal disbursement of their confirmed government student loans, or grants.

Students are encouraged to email Scholarships and Student Finance ([awards@uleth.ca](mailto:awards@uleth.ca)) if experiencing financial duress, to obtain an emergency bursary application or arrange consultation with a staff member.

The full policy is available online at [www.ulethbridge.ca/policy/emergency-student-loan-fund](http://www.ulethbridge.ca/policy/emergency-student-loan-fund).



# GLOSSARY

<b>A.</b> .....	535	<b>G.</b> .....	538
Academic Advisor.....	535	General Admission.....	538
Academic Medals.....	535	Grade Point Average (GPA).....	538
Academic Objective.....	535	Grading Mode.....	538
Academic Schedule.....	535	Graduate Student.....	538
Accreditation.....	535		
Add/Drop.....	535	<b>H.</b> .....	538
Alberta Council on Admissions and		Honorary Degree.....	538
Transfer (ACAT).....	535		
Alumni.....	535	<b>I.</b> .....	538
Alum of the Year Award.....	535	Independent Study.....	538
Applied Studies.....	535	Individual Multidisciplinary Major.....	538
Audit Student.....	535	Ingrid Speaker Medal for Distinguished	
		Research, Scholarship, or Performance....	538
<b>B.</b> .....	535	Interdisciplinary Studies.....	538
Bridge ( <a href="http://www.ulethbridge.ca/bridge">www.ulethbridge.ca/bridge</a> ).....	535	International Student.....	538
<b>C.</b> .....	536	<b>L.</b> .....	538
Calendar Year.....	536	Laboratory (Lab).....	538
Cognates.....	536	Liberal Education List Requirement.....	538
Cohorts.....	536		
Combined Degrees.....	536	<b>M.</b> .....	539
Concentration.....	536	Major.....	539
Contact Hours.....	536	Minor.....	539
Continuing Student.....	536	Mutually Exclusive.....	539
Convocation.....	536		
Corequisite(s).....	536	<b>N.</b> .....	539
Counsellor.....	536	Nursing Education in Southwestern Alberta	
Credit Hours.....	536	(NESA).....	539
Cross-listed Course.....	536		
		<b>O.</b> .....	539
<b>D.</b> .....	536	Official Academic Transcript.....	539
Dean.....	536	On-campus Recruitment (OCR).....	539
Department.....	536	On-campus Student.....	539
Discipline.....	536	Open Studies Student.....	539
Distinguished Teaching Award.....	536		
Domestic Student.....	536	<b>P.</b> .....	539
		Part-time Student.....	539
<b>E.</b> .....	537	Plagiarism.....	539
English for Academic Purposes (EAP).....	537	Pre-program.....	539
English Language Proficiency (ELP).....	537	Prerequisite(s).....	539
Equivalent Courses.....	537	Prerequisite Waiver.....	539
Exchange Student.....	537	President's Award for Service Excellence...	539
Extended Drop Deadline.....	537	Program.....	540
Extra-to-Program Course Credit.....	537		
		<b>R.</b> .....	540
<b>F.</b> .....	537	Recognized Institution.....	540
Faculty.....	537	Recommended Background.....	540
Fiat Lux - 'Let there be light.'.....	537	Residence Requirement.....	540
Final Grades.....	537	Returning After an Absence.....	540
Full-time Student.....	537	Returning Transfer.....	540

<b>S</b> .....	540	<b>U</b> .....	541
School .....	540	Undergraduate Student .....	541
Senate Volunteer Award .....	540	University Community Member .....	541
Senior Citizen .....	540	University Shield .....	542
Series Course .....	540	Unofficial Academic Transcript .....	542
Specialization .....	540	<b>V</b> .....	542
Spoken English Language Proficiency .....	540	Visiting Student .....	542
Student .....	540	<b>W</b> .....	542
Substantially Similar Courses .....	540	Withdrawal .....	542
Summer Session .....	541	<b>Y</b> .....	542
<b>T</b> .....	541	Year of the Calendar .....	542
Tabula Rasa .....	541		
Term .....	541		
Topics Course .....	541		
Transferable Course .....	541		
Transferable Grade Point Average .....	541		
Transfer Credit .....	541		
Transfer Student .....	541		
Tutorial .....	541		

# A

## Academic Advisor

A University of Lethbridge employee who provides advice to students regarding their program, major or other academic concerns at the University of Lethbridge.

## Academic Medals

Awarded to mark the achievements of the University's top students. The University's Faculties and Schools award gold medals at spring Convocation to the top undergraduate students in Arts, Science, Education, Management, Fine Arts and Health Sciences. An additional undergraduate gold medal (the William Aberhart Medal) is awarded by the Alberta Teachers' Association. In the School of Graduate Studies, medals of merit are awarded to the most distinguished students graduating with a master's degree. The overall top undergraduate and graduate students in the institution receive, respectively, the silver and gold medals of the Governor General of Canada.

## Academic Objective

Students planning to transfer to another post-secondary institution to complete a professional program declare an academic objective, which is their intended program of study at the transfer institution (see **Faculty of Arts and Science, Pre-Professional Transfer Program in Engineering, p. 143** and **Professional Transfer Programs, p. 143**).

## Academic Schedule

The University's schedule of dates and deadlines. These dates are legislated by General Faculties Council (GFC) (see **Academic Schedule, p. 15**).

## Accreditation

Refers to a validated quality assurance process for post-secondary institutions. During an accreditation process, competent authorities confirm that an institution or a program meets the appropriate standards of education. In Canada, the provincial and territorial governments regulate post-secondary education, and each jurisdiction has its own quality assurance mechanism. As such, a national accreditation body does not exist. The accreditation process varies depending upon jurisdictional mandate, as well as the discipline, level, and credential type of a program. With respect to program accreditation, an external agency or professional regulatory body may conduct the investigation, and accredit the program.

## Add/Drop

Period of time at the beginning of each term and session when students may register in (add) courses. For more information, see **Registration, Course Registration (p. 42)**, and **Fees, Cancellations, Refunds and Withdrawals (p. 46)**. For Add/Drop deadlines, see the **Academic Schedule (p. 15)**. See also **Extended Drop Deadline**.

## Alberta Council on Admissions and Transfer (ACAT)

An independent body consisting of representatives from the public, students, universities, public colleges, technical institutions, Alberta Vocational Colleges, private colleges and Alberta Education. The Council is responsible for developing policies, guidelines and procedures designed to facilitate course and program transfer arrangements among post-secondary institutions in Alberta. The basic objective of the Council is the development of educational opportunities for students.

## Alumni

Individuals who have had a degree conferred on them by the University of Lethbridge. Associate alumni are those who have completed 10 or more courses toward a University of Lethbridge degree.

## Alum of the Year Award

Awarded by the University of Lethbridge Alumni Association to recognize individuals who have demonstrated outstanding academic achievement or have gained an international reputation in their chosen field.

## Applied Studies

An opportunity for students to gain course credit for volunteer or employment experience. See the Career Bridge for specific information (AH151; tel. 403-329-2000), or **Applied Studies, p. 340**.

## Audit Student

A student who has been granted permission by an instructor to attend lectures in a course with the understanding that the student may not submit assignments, sit for examinations or participate in class discussions (except by invitation of the instructor). The course appears on the official academic transcript with a non-grade AU designation (see **Registration, Audit a Course, p. 39**).

# B

## Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge))

The University's online system that contains information and services, such as application status, scholarship applications, course registration, fees, tax statements and access to final grades.



## C

### **Calendar Year**

See **Year of the Calendar**.

### **Cognates**

Courses from a related discipline deemed to complement the chosen area of study and to encompass knowledge and skills essential to that area.

### **Cohorts**

A group of students with a particular program focus that are admitted together and register together in a particular sequence of courses.

### **Combined Degrees**

Programs offered at the University of Lethbridge that allow a student to complete requirements for two degrees simultaneously. The requirements for the 40-course single degree configuration are modified for the combined degrees program. Neither degree is awarded until all requirements for both degrees are completed.

### **Concentration**

A defined set of typically four or five courses with a focus on a specific topic within a program. It may be required or optional. If a concentration is required for a major, both the major and concentration must be completed as neither may stand alone.

### **Contact Hours**

The total number of instructional hours for a specific course. This number includes weekly lectures, labs and tutorials, as well as other irregularly scheduled requirements

### **Continuing Student**

An admitted student who has been enrolled in at least one course (including Placeholder courses) in each consecutive fall or spring term from the time of their most recent admission to the University.

### **Convocation**

The ceremony held for the purpose of the Chancellor conferring degrees, diplomas, and certificates. This is the celebration of students' academic accomplishments. See **Convocation, p. 67**.

### **Corequisite(s)**

A course that must be taken prior to or in conjunction with another course.

### **Counsellor**

A mental health professional eligible for provincial certification who provides personal counselling for students. This may include career or academic counselling. Vocational interest and related testing is provided by counsellors as required.

### **Credit Hours**

The weighting factor of the course when determining grade point average. Regular, full-term credit courses carry a weighting of 3.0 credit hours, while half-credit courses carry a weighting of 1.5 credit hours. Some courses carry non-standard credit hours (e.g., 6.0 credit hours). A University of Lethbridge student requires 120 credit hours to graduate with a four-year degree.

### **Cross-listed Course**

A single course originating from two different Faculties or Schools or two different departments within the same Faculty or School. Cross-listed courses appear in the Calendar and on students' official academic transcript in the dual form. Courses that are cross-listed are noted in the course title.

## D

### **Dean**

The head of a Faculty or School at the University of Lethbridge. In this Calendar, the term "Dean" may refer to either the Dean of a Faculty or School, or to their Designate.

### **Department**

A formal subdivision within the Faculty of Arts and Science and the Faculty of Fine Arts at the University of Lethbridge. Departments are responsible for developing and administering programs and courses related to specific disciplines.

### **Discipline**

A branch of knowledge or learning.

### **Distinguished Teaching Award**

The Distinguished Teaching Award was established in 1987 to recognize the central importance of teaching to the philosophy and goals of the University. The award is presented at Convocation.

### **Domestic Student**

Any student who is a Canadian citizen, permanent resident, protected person in accordance with the Immigration and Refugee Protection Act, and any student who is a holder of a diplomatic visa issued by the Government of Canada. Classification as a domestic student affects fee assessment only. See **International Student** and **Fees, Definitions (p. 44)**.

## E

### English for Academic Purposes (EAP)

An English language program designed for students seeking admission to a University of Lethbridge program who have not yet met the English Language Proficiency (ELP) admission requirements. For more information, see **University of Lethbridge International (p. 71)** or visit [www.ulethbridge.ca/international/EAP](http://www.ulethbridge.ca/international/EAP).

### English Language Proficiency (ELP)

All applicants to the University of Lethbridge and Open Studies registrants must demonstrate English language proficiency sufficient to meet the demands of classroom instruction, written assignments, and participation in tutorials and discussions. This requirement may be met in a variety of ways (see **Admission, English Language Requirements, p. 30**).

### Equivalent Courses

Courses that can be substituted, one for the other, to meet any specified course requirement. The regulations that apply to repeated courses also apply to equivalent courses. Students should note, in particular, the calculation of grade point average (see **Academic Regulations, Repeat of a Course, p. 55**). Courses that are equivalent are denoted with an 'Equivalent' course element in the course description.

### Exchange Student

A student enrolled at their home post-secondary institution who is attending another post-secondary institution under an approved exchange program.

### Extended Drop Deadline

Last day in each term and summer session when students may cancel registration (drop courses) before tuition, program, and compulsory fees are non-refundable. Courses that are dropped by the Extended Drop Deadline do not appear on transcripts. For more information, see **Registration, Course Registration (p. 42)**, and **Fees, Cancellations, Refunds and Withdrawals (p. 46)**. For Extended Drop Deadlines, see the **Academic Schedule (p. 15)**. See also **Add/Drop** and **Withdrawal**.

### Extra-to-Program Course Credit

University of Lethbridge and transferable course credit that cannot be used to meet program requirements. Examples of course credit that may be deemed extra-to-program include a University of Lethbridge course taken outside a student's program requirements or eligible electives, one of a substantially similar course pair, and awarded institutional transferable course that does not fulfill program requirements or does not meet program residence requirements. Extra-to-program course credit is maintained on the student record and calculated into applicable grade point averages. Should students change programs, previous extra-to-program course credit should be reviewed to determine if it may be used to meet the program requirements of the new program. (See **Admission, Transfer Credit, p. 32**, and **Academic Regulations, Exceeding Course Limits, p. 56**).

## F

### Faculty

A formal subdivision within the University. Faculties are responsible for the development, approval and administration of programs and courses related to specific degrees. See also **School**.

### Fiat Lux - 'Let there be light.'

The University's motto and the words seen on its shield.

### Final Grades

Grades recorded on the official academic transcript for completed courses. Students may access their final grades via the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)).

### Full-time Student

Students enrolled in at least 9.0 credit hours per term (fall, spring) are considered full time. Students receiving student loans for full-time studies during summer must be registered in a minimum of 9.0 credit hours consecutively May - August. Additionally, condensed summer sessions may be eligible for loans. Students enrolled in Co-operative Education courses are considered full-time. Some exceptions to provincial/territorial student loan regulations exist. Students should contact Scholarships and Student Finance for eligibility requirements. For more information, see **Registration, Full-time and Part-time (p. 38)**.

Government or other agencies may require more than these minimums per term for loans or scholarships for which only full-time students are eligible.

## G

### General Admission

The minimum admission requirements that all applicants to undergraduate programs at the University of Lethbridge must meet. Many programs have additional admission requirements that must also be met. See **Admission, General Admission (p. 22)**.

### Grade Point Average (GPA)

The current GPA is calculated on all graded courses completed in a given term. The cumulative GPA is calculated on all graded courses completed at the University of Lethbridge at a given level (undergraduate or graduate). Other types of GPA, such as Admission GPA or Program GPA, are used by certain Faculties, Schools or units at the University of Lethbridge. These are defined by the Faculty, School or unit that uses them (see **Academic Regulations, Grade Point Average Calculations, p. 53**).

### Grading Mode

The type of grade that will be awarded in a course as defined in **Academic Regulations, Grading (p. 52)**. The standard grading mode employed by instructors is a letter grade; the alternative grading mode is Pass/Fail.

### Graduate Student

A student enrolled in a graduate or post-graduate program that leads to a graduate certificate, graduate diploma, master's, or doctoral credential at the University of Lethbridge.

## H

### Honorary Degree

A degree awarded by the University of Lethbridge Senate to an individual in recognition of outstanding achievement. The specific degree awarded varies according to both the individual's area of accomplishment and the source of the original nomination.

## I

### Independent Study

Individual study for course credit under the supervision of an instructor. Course work may require independent library research or field work and a major term paper. For further information, students should consult the department or faculty member under whom they wish to pursue independent study.

### Individual Multidisciplinary Major

An individual major designed by the student. The major must be an in-depth study of a subject rather than a broad survey. The major must incorporate knowledge from several disciplines and should be derived from the existing Arts and Science curriculum. It may not duplicate a program offered at the University.

### Ingrid Speaker Medal for Distinguished Research, Scholarship, or Performance

The Ingrid Speaker Medal was established in 1995 to recognize the importance of research, scholarship and performance at the University of Lethbridge. The award is presented at Convocation.

### Interdisciplinary Studies

Courses that examine a single topic from a variety of disciplinary perspectives.

### International Student

Any student who is not a citizen or resident of Canada. Classification as an International Student impacts fee assessment only. See **Domestic Student** and **Fees, Definitions (p. 44)**.

## L

### Laboratory (Lab)

A scheduled class meeting time separate from the normal hours per week in which a lecture is held. The laboratory is set aside for practical learning, such as experiments, solving problems or listening and speaking (in the case of language courses).

### Liberal Education List Requirement

The 12-course requirement for all University of Lethbridge undergraduate students that embodies the University's liberal education philosophy. Liberal education encompasses: breadth across disciplines, the ability to connect and integrate knowledge, critical thinking and problem solving skills, and education for citizenship.

# M

## Major

The primary academic focus of a program. It is generally a defined set of courses in a subject area. For each declared single degree, diploma or certificate, a major must be declared. Some credentials may permit optional double majors (refer to the applicable Faculty or School sections of the Calendar). For the BASc., two majors must be declared. For combined degrees and double majors, two majors must be declared, i.e., one major for each degree sought.

## Minor

A defined set of six courses, designed to provide depth in a particular discipline, study in an interdisciplinary area, or focus on a theme-related topic. To learn more about minor requirements and which minors are available, see **Minors (p. 323)**.

## Mutually Exclusive

When courses are mutually exclusive, students who are currently registered or who have earned a minimum passing grade in one of the mutually exclusive courses or equivalent may not subsequently register in a section of another course with which it is mutually exclusive.

# N

## Nursing Education in Southwestern Alberta (NESA)

The Faculty of Health Sciences, in collaboration with Lethbridge College, prepares baccalaureate graduates for the nursing profession through the Nursing Education in Southwestern Alberta (NESA), Bachelor of Nursing, and Bachelor of Nursing After Degree programs.

# O

## Official Academic Transcript

An official academic transcript is the official, permanent academic record of a student's enrolment activity at the University of Lethbridge, and bears the seal and signature of the University of Lethbridge Registrar. See **Academic Regulations, Academic Transcripts (p. 55)**.

## On-campus Recruitment (OCR)

The process by which employers conduct job interviews on campus.

## On-campus Student

A student enrolled in one or more courses delivered on the University of Lethbridge campus, even if the student is enrolled in other courses delivered off-campus.

## Open Studies Student

A student who is not formally admitted to a program at the University but who is permitted to take one or more courses in a given term. Courses taken as an Open Studies student may count in a University program if a student applies and is later admitted to a program at the University (see **Registration, Open Studies Student, p. 39**).

# P

## Part-time Student

A student who is registered in fewer than 9.0 credit hours in a fall, spring or summer term or session is considered part-time. For more information, see **Registration, Full-time and Part-time (p. 38)**.

## Plagiarism

The submission by a student of the writings, ideas or data of another individual as the student's own in any essay or assignment.

## Pre-program

A program in which the student completes requirements for admission to a professional program at the University of Lethbridge or for transfer to a professional program at another post-secondary institution.

## Prerequisite(s)

A preliminary requirement that must be met or waived before a course can be taken.

## Prerequisite Waiver

Written permission from a Faculty or School allowing a student to register in a course without the specific prerequisite. Prerequisite waivers may be obtained from the academic unit delivering the course (see **Academic Regulations, Waiver of Prerequisite/Corequisite, p. 56**).

## President's Award for Service Excellence

Inaugurated in Spring 2003, this award honours administrative staff members who enhance the reputation and improve the effectiveness of the University of Lethbridge through service, commitment, and participation.

**Program**

A specific set of course requirements leading to the completion of a set of admission requirements, a degree, diploma, or certificate, either at the University of Lethbridge or at a post-secondary institution with which the University has a formal transfer agreement.

**R****Recognized Institution**

Refers to an academic institution that is granted by a provincial or territorial government the power to award academic credentials. It includes institutions such as universities, CEGEPs, institutes, community colleges, colleges of applied arts and technology, and so forth.

**Recommended Background**

A course that is not a preliminary requirement for another course but contains material that would provide a good background for that course. Students may take a course for which they do not have the recommended background but should be aware that they may have more difficulty with the course than a student who has the recommended background.

**Residence Requirement**

The number of courses that must be completed at the University of Lethbridge and, in some cases, when these courses must be taken in order for the credential to be conferred. For specific information on all program residence requirements, see **Academic Regulations, Residence Requirements and Time Limits (p. 58)**.

**Returning After an Absence**

Applicants who were admitted to a University of Lethbridge program, completed one or more terms at the University, subsequently interrupted their continuing student status prior to the completion of the program (whether the interruption was voluntary or involuntary on the part of the students), and who did not complete any university-level studies in the interim.

**Returning Transfer**

Applicants who were admitted to a University of Lethbridge program, completed one or more terms at the University, subsequently interrupted their continuing student status prior to the completion of the program (whether the interruption was voluntary or involuntary on the part of the students), and who completed university-level studies in the interim.

**S****School**

A formal subdivision within the University. Schools are responsible for the development, approval, and administration of programs and courses related to specific degrees. See also **Faculty**.

**Senate Volunteer Award**

Inaugurated in Spring 2005, this award honours worthy recipients who have a record of singularly exemplary and distinguished volunteer service to the University. This award is available to any member of the University community.

**Senior Citizen**

Any individual aged 65 years or older. Classification as a Senior Citizen impacts fee assessment only.

**Series Course**

A regularly offered course whose content may vary with each offering. Each Series course has one course number (e.g., Anthropology 2210 or English 3700). Different offerings in a Series course are indicated by the course title. A Series course may be specified as a requirement in a program. Students may receive credit for more than one offering in a series if the offerings are distinct (i.e., if each offering has a different course title).

**Specialization**

A defined set of courses related to the major but over and above the minimum requirements for the major. It includes an experiential learning component such as a required internship. It may be required or optional. Specializations are not available in all programs.

**Spoken English Language Proficiency**

An admission requirement for programs offered by the Faculty of Health Sciences. For more information, see **Faculty of Health Sciences, Spoken English Language Proficiency Requirement (SELP) (p. 197)**.

**Student**

Any person who is a) registered or enrolled in one or more credit or non-credit courses or programs at the University of Lethbridge for the current or a future term; or b) registered or enrolled in any University-sponsored program.

**Substantially Similar Courses**

Courses that contain a high percentage of similar course content but are not deemed equivalent (see **Academic Regulations, Substantially Similar Course Limits, p. 56**). Courses that are substantially similar are denoted with a 'Substantially Similar' course element in the course description.

## Summer Session

Summer session refers to a period of study within the summer term, which occurs during the period May through August. Summer Session I occurs during the period early May through late June; Summer Session II occurs during the period early to late July; Summer Session II/III occurs during the period early July to mid-August; and Summer Session III occurs during the period late July to mid-August. The aggregate of all summer sessions is considered to be a summer term. For more information regarding financial support and maximum course load during summer session, see **Registration, Full-time and Part-time (p. 38)**. See **Term** for information on courses that run full-term over the summer.

# T

## Tabula Rasa

Literally 'a clean slate.' *Tabula Rasa* is granted to students upon readmission after being required to withdraw. It allows the student to retain ungraded credit for certain courses completed prior to the required withdrawal, while the points and hours are removed from the student's record and the GPA is reset. This academic amnesty allows the student to retain credit for courses that were successfully completed and to have a fresh start with respect to grade point average. *Tabula Rasa* is available in the Faculty of Arts and Science (see **Faculty of Arts and Science, Readmission after Required Withdrawal, p. 90**), the Faculty of Fine Arts (see **Faculty of Fine Arts, Readmission after Required Withdrawal, p. 170**), the Faculty of Health Sciences (see **Faculty of Health Sciences, Readmission after Required Withdrawal, p. 197**), and the Dhillon School of Business (see **Dhillon School of Business, Readmission after Required Withdrawal, p. 211**).

## Term

Term refers to a period of study.

1. Fall term occurs during the period September through December.
2. Spring term occurs during the period January through April.
3. Summer term occurs during the period May through August. Students registered in graduate or undergraduate courses that run full-term during the period May through August are considered to be enrolled in the summer term. See **Summer Session** for information on courses that do not run full-term over the summer.

## Topics Course

A course that is not offered regularly at the University of Lethbridge and whose content varies with different offerings. Each Topics course is identified by the number 1850, 2850, 3850, 4850 or 5850, and different offerings are indicated by the title of the particular section. Students may take more than one offering of a Topics course for credit if the offerings are distinct (i.e., if each section taken has a different title).

A Topics course cannot be specified as a required course in any major or program.

## Transferable Course

A course completed at another post-secondary institution that may be granted transfer credit according to the policies outlined in **Admission, Transferable Courses (p. 25)**.

## Transferable Grade Point Average

The average of all grades an applicant has earned in all completed institutional transferable courses (including both passing and failing grades), whether or not these courses can be used to meet the requirements of a University of Lethbridge program.

## Transfer Credit

Credit granted by the University of Lethbridge for courses taken at another post-secondary institution. Specified transfer credit corresponds directly to specific courses at the University of Lethbridge. Unspecified transfer credit (1000-level unspecified, 2000-level unspecified, etc.) is granted when the course is not equivalent to a specific course at the University of Lethbridge but is recognized as being university-level. See **Admissions, Transfer Credit (p. 32)**.

## Transfer Student

A student who has attended another post-secondary institution and who has been admitted to the University of Lethbridge on the basis of the completion of six or more transferable courses. See **Admission, Post-Secondary Admission Route (p. 25)**.

## Tutorial

A scheduled class meeting time separate from the normal hours per week in which a lecture is held. Tutorials allow students the opportunity to receive help from an instructor in specific areas, or to practice skills gained during lectures.

# U

## Undergraduate Student

A student enrolled in a program that leads to a bachelor's degree, diploma or certificate at the University of Lethbridge.

## University Community Member

Any student, employee, alumni, volunteer, person participating in a non-credit program offered by the University, person invited to participate in a University-sponsored event, contractor, or guest of the University.

**University Shield**

The University's shield was designed in the University's colours of blue and gold. The gold sun on the blue shield represents southern Alberta. The University's motto, 'Fiat Lux', Latin for 'Let there be light', is lettered on a band below the shield.

**Unofficial Academic Transcript**

An unofficial academic transcript does not bear the Registrar's seal or signature. This type of academic transcript is not the official academic record of the University of Lethbridge; however, it is accessible to students online through the Bridge ([www.ulethbridge.ca/bridge](http://www.ulethbridge.ca/bridge)). See **Academic Regulations, Academic Transcripts (p. 55)**.

**V****Visiting Student**

There are two types of visiting students:

1. A University of Lethbridge student who has obtained special permission to study at another post-secondary institution for a specified time and to receive credit at the University of Lethbridge for any course(s) taken at another post-secondary institution. Permission must be obtained from the student's Faculty/ies and/or School(s) before enrolment at the other post-secondary institution. Contact the relevant academic advising office for more information.
2. A student enrolled at another post-secondary institution who has obtained permission to study at the University of Lethbridge for a specified time and to receive credit at the other institution for any course(s) taken at the University of Lethbridge.

**W****Withdrawal**

Students can withdraw from individual courses or their complete registration after the extended drop deadline up to and including the last day of classes in a term or session. A designation of 'W' is recorded on the official academic transcript for withdrawn courses. For more information, see **Registration, Withdrawal (p. 42)**, and **Fees, Cancellations, Refunds and Withdrawals (p. 46)**. For Withdrawal Deadlines, see the **Academic Schedule (p. 15)**. See also **Extended Drop Deadline**.

**Y****Year of the Calendar**

The specific University of Lethbridge Academic Calendar and Course Catalogue that governs a student's program requirements. Students are governed by the program requirements of the Calendar in effect at the time of their most recent admission but are governed by the current Calendar in all other respects (see **Academic Regulations, Year of the Calendar, p. 57**).



University of  
**Lethbridge**



**Student Enrolment  
and Registrar Services**

4401 University Drive W.  
Lethbridge, Alberta T1K 3M4  
403-320-5700  
[inquiries@uleth.ca](mailto:inquiries@uleth.ca)

[ulethbridge.ca/future-student](http://ulethbridge.ca/future-student)