



PROGRAM PLANNING GUIDE

ID:

Name: _____



Bachelor of Management

Computer Science



Computer science is a science that has revolutionized the world and advances are being made constantly. Computer science spans theory and practice, and requires you to think and problem solve in abstract and concrete terms. As a computer science major you will get a broad technical knowledge that will allow you to tackle difficult problems using a variety of hardware, software and programming languages, as well as learn to communicate your expertise to others. Among the areas you'll study are programming, digital systems, database management systems, data structures and computer architecture.

What determines my program requirements?

Please refer to the Academic Calendar (www.ulethbridge.ca/ross/academic-calendar) for complete program information.

Calendar Year: 2024/2025 - Your calendar year is set to the academic year you are admitted (or readmitted) and you should follow the requirements for that year for the duration of your program.

Faculty/School: Dhillon School of Business (www.ulethbridge.ca/dhillon) - An internationally accredited AACSB business school

Program(s): Bachelor of Management

Major(s): Computer Science

Minor: A defined set of 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 optional minors see www.ulethbridge.ca/ross/minors.

Am I admissible to this program?

Admission: www.ulethbridge.ca/ross/admissions/undergrad

Transfer: www.ulethbridge.ca/ross/transfer-resources

When/How do I apply to the University?

Deadlines: www.ulethbridge.ca/ross/admissions/undergrad/deadlines

Step-by-Step: www.ulethbridge.ca/ross/admissions/step-by-step

Where can I find information on courses?

Course Catalogue: www.ulethbridge.ca/ross/courses

Registration Guide: www.ulethbridge.ca/ross/registration-guide

When can I register for classes?

Register early! (March for Summer and Fall; November for Winter)

Registration Dates: www.ulethbridge.ca/ross/registration-dates

How can I enhance my program?

Career Bridge: www.ulethbridge.ca/career-bridge

Honours Thesis: www.ulethbridge.ca/ross/undergraduate-thesis

Student Professional Development:

www.ulethbridge.ca/dhillon/student-experience/student-professional-development

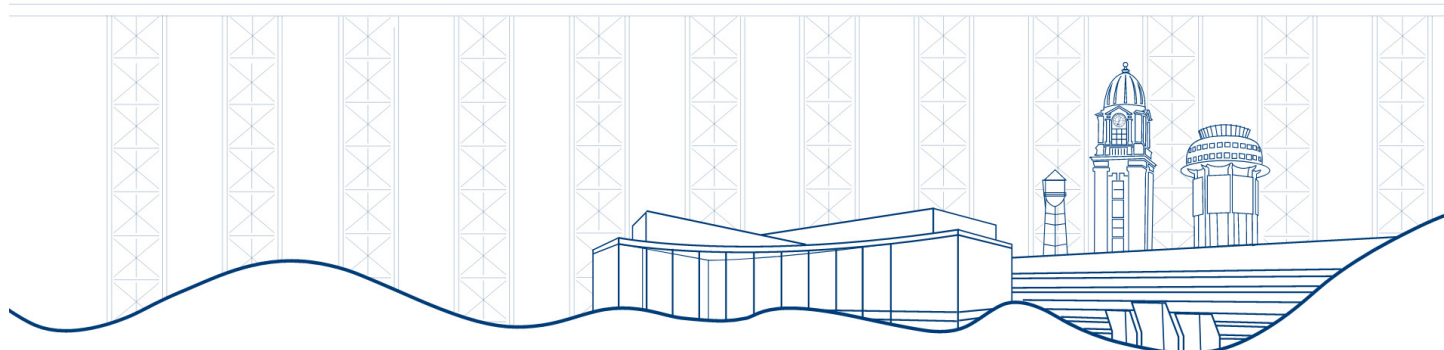
What supports are available to students?

Student Services: www.ulethbridge.ca/campus-life/student-services

Student Success Centre: www.ulethbridge.ca/student-success-centre

Accessible Learning: www.ulethbridge.ca/ross/alc

Counselling Services: www.ulethbridge.ca/counselling





Required courses and notes

Core Requirements (18 Courses)

- _____ 1. Economics 1010 - Introduction to Microeconomics
- _____ 2. Economics 1012 - Introduction to Macroeconomics
- _____ 3. Management 1500 - Fundamentals of Business
- _____ 4. Statistics 1770 - Introduction to Probability and Statistics
- _____ 5. Marketing 2020 - Marketing
- _____ 6. Human Resources and Labour Relations 2030 - Introduction to Organizational Behaviour
- _____ 7. Management 2070/Economics 2070 - Operations and Quantitative Management
- _____ 8. Management 2081 - Professional Communications Skills
- _____ 9. Accounting 2100 - Introductory Accounting
- _____ 10. Accounting 2400 - Management Accounting
- _____ 11. Management 3031 - Managing Responsibly in a Global Environment
- _____ 12. Finance 3040 - Finance
- _____ 13. Human Resources and Labour Relations 3050 - Human Resource Management
- _____ 14. International Management 3650 - Introduction to International Management
- _____ 15. Management 4090 - Management Policy and Strategy
- _____ 16. **One of:**
 - _____ Management 3062 - Information Systems and Data Analytics
 - _____ ¹Accounting 3171 - Accounting Information Systems and Data Analytics
 - _____ Management 3622 - Visual Analytics

Indigenous Content Requirement:

If the course that is selected from the list below does not have a Fine Arts and Humanities designation, an additional Fine Arts and Humanities elective will be required in order to meet Liberal Education requirements.

- _____ 17. **One of:**
 - _____ 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 2210 - Structure of the Plains Cree Language
 - _____ Liberal Education 1850 - Conversational Indigenization: Reconciling Reconciliation
 - _____ ¹Political Science 3215 - Indigenous Peoples and Local Government in Canada

Writing Requirement:

Students who have a final grade of 80% or higher in AB high school English Language Arts 30-1 (or equivalent 5-credit course); or who have successfully completed the writing challenge test (see www.ulethbridge.ca/dhillon/advising-faqs) may request to substitute a Fine Arts and Humanities Liberal Education List Requirement for Writing 1000 or English 1900. Contact your DSB Advisor.

- _____ 18. **One of:**
 - _____ Writing 1000 - Introduction to Academic Writing
 - _____ English 1900 - Introduction to Language and Literature

Major Requirements (16 Courses)

- _____ 19. Management 3920 - Project Management
- _____ 20. * Computer Science 1620 - Fundamentals of Programming I
- _____ 21. * Computer Science 1820 - Discrete Structures
- _____ 22. * Computer Science 2610 - Introduction to Digital Systems
- _____ 23. * Computer Science 2620 - Fundamentals of Programming II
- _____ 24. * Computer Science 2720 - Practical Software Development
- _____ 25. * Computer Science 3615 - Computer Architecture
- _____ 26. * Computer Science 3620 - Data Structures and Algorithms
- _____ 27. * Computer Science 3660 - Introduction to Database Systems
- _____ 28. * Computer Science 3720 - Introduction to Software Engineering
- _____ 29. * Computer Science 3740 - Programming Languages
- _____ 30. * Computer Science 3780 - Data Communications and Networking
- _____ 31. Mathematics 2000 - Mathematical Concepts
- _____ 32.-34. * 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).
- _____ 32. _____
- _____ 33. _____
- _____ 34. _____

Electives (6 Courses)

Minor courses may fill electives where applicable.

- _____ 35.-36. Two Fine Arts and Humanities electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education** in the 2024/2025 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar)
- _____ 35. _____
- _____ 36. _____
- _____ 37.-40. Four 3000 or 4000-level electives (from any faculty/school)
- _____ 37. _____
- _____ 38. _____
- _____ 39. _____
- _____ 40. _____

Notes:

* A minimum grade of 'C-' is required in these courses to meet degree requirements.

¹ Students should be aware that this course has prerequisites which may require taking courses extra to their program 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 Computer Science majors who can also use 3000 or 4000-level Computer Science courses to meet this requirement.



Required courses and notes

General Requirements

Students must 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 including, but not limited to:

- _____ Successful completion of at least 40 courses (120.0 credit hours) with cumulative and graduation grade point averages of at least 2.00. To determine graduation grade point averages, see **Dhillon School of Business, Graduation** in the 2024/2025 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar.
- _____ A minimum grade of 'C-' is required in all Dhillon School of Business courses (ACCT, AGEM, FINC, HRLR, IGBM, IMGT, MGT, and MKTG) 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.
- _____ All degree requirements must be completed within 10 years after acceptance into the Dhillon School of Business.
- _____ A maximum of 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (PHAC and MUSE) and courses numbered 0520 to 0530.
- _____ A maximum of 6.0 credit hours in Activity courses may be taken for credit towards the degree.
- _____ Completion of the Liberal Education List Requirement.
- _____ Residence Requirement: Students must successfully complete at least 20 courses at the University of Lethbridge, including 10 Dhillon School of Business courses at the 3000/4000 level. Computer Science majors can use 3000/4000 Computer Science courses taken at the University of Lethbridge toward the Dhillon School of Business residence requirement.

Liberal Education List Requirement

Only four courses (12.0 credit hours) in total may be counted from any one discipline toward the Lib Ed Requirement. Disciplines are identified by separate course subject codes. Cross-listed courses count toward the limit for both disciplines (e.g. IGBM 3250/INDG 3250 counts toward the limit for Dhillon School of Business courses and Indigenous Studies).

Only four courses (12.0 credit hours) in total from the Faculty of Education (EDUC), Faculty of Health Sciences (ABHL, ADCS, HLSC, NURS, PUBH, and TREC), and the Dhillon School of Business (ACCT, AGEM, FINC, HRLR, IGBM, IMGT, MGT, and MKTG) may be counted towards the Lib Ed Requirement.

To determine if a course has a Liberal Education designation, see School of Liberal Education in the 2024/2025 University of Lethbridge Undergraduate Calendar, www.ulethbridge.ca/ross/academic-calendar.

- _____ **1.-4. List I: Fine Arts and Humanities**
 - _____ 1. _____
 - _____ 2. _____
 - _____ 3. _____
 - _____ 4. _____
- _____ **5.-8. List II: Social Science**
 - _____ 5. _____
 - _____ 6. _____
 - _____ 7. _____
 - _____ 8. _____
- _____ **9.-12. List III: Science**
 - _____ 9. _____
 - _____ 10. _____
 - _____ 11. _____
 - _____ 12. _____

Optional Minor: _____

For information about minors see **Minors** in the 2024/2025 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar. Consult with an Academic Advisor if you wish to add a minor to your program.

- _____ **1.-6. Required Courses**
 - _____ 1. _____
 - _____ 2. _____
 - _____ 3. _____
 - _____ 4. _____
 - _____ 5. _____
 - _____ 6. _____



Recommended Course Sequence

Shown below is the recommended sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each term as some courses may have limited offerings (ie. once a year, alternating years, or only offered in the Fall or Winter terms).

Consult with an Academic Advisor in your faculty if you wish to alter this sequence with regard to the specifically listed courses.

Note that this sequence was prepared based on course scheduling at the time of publication and may change during your studies.

First Year

- Accounting 2100
- * Computer Science 1620
- * Computer Science 1820
- Economics 1010
- Economics 1012
- Human Resources and Labour Relations 2030
- Management 1500
- Marketing 2020
- Statistics 1770
- ¹ One of: Writing 1000 or English 1900

Second Year

- Accounting 2400
- * Computer Science 2610
- * Computer Science 2620
- Human Resources and Labour Relations 3050
- International Management 3650
- Management 3031
- Management 2070/Economics 2070
- Management 2081
- Mathematics 2000
- ² Indigenous Content Requirement

Third Year

- * Computer Science 2720
- * Computer Science 3615
- * Computer Science 3620
- * Computer Science 3740
- * Computer Science 3780
- Finance 3040
- Management 3920
- One of: Accounting 3171³, Management 3062, or Management 3622
- Elective - 3000/4000 level
- Elective - Fine Arts & Humanities

Fourth Year

- * Computer Science 3660
- * Computer Science 3720
- *⁴ Computer Science 3000/4000 level
- *⁴ Computer Science 3000/4000 level
- *⁴ Computer Science 4000 level
- Management 4090
- Elective - 3000/4000 level
- Elective - 3000/4000 level
- ² Elective - 3000/4000 level
- Elective - Fine Arts & Humanities

1. Students who have a final grade of 80% or higher in AB high school English Language Arts 30-1 (or equivalent 5-credit course); or who have successfully completed the writing challenge test (see www.ulethbridge.ca/dhillon/advising-faqs) may request to substitute a Fine Arts and Humanities Liberal Education List Requirement for Writing 1000 or English 1900. Contact your DSB Advisor.
2. Refer to the list of Indigenous Content courses in the preceding core requirements. Students who take an Indigenous Content course that does not have a Fine Arts and Humanities designation must replace one elective with a Fine Arts and Humanities.
3. Students should be aware that this course has prerequisites which may require taking courses extra to their program requirements.
4. Excluding Computer Science 4850, Computer Science 4980, and Computer Science 4990.

Final Program Check

Request a Final Program Check at www.ulethbridge.ca/dhillon/final-program-check by December 1 (April completers) or by April 1 (June, August, & December completers) and after registering in your final term.

Program requirements with _____ (majors, minors, concentrations)	
<input type="checkbox"/> will be met upon successful completion of _____ currently enrolled courses	<input type="checkbox"/> have been met
U of L GPA: _____	Grad GPA: _____ Co-op: _____ Honours Thesis: _____
Advisor: _____ Date: _____	Advisor: _____ Date: _____