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Program Planning Guide

Current and past Program Planning Guides are available on the UofL website at www.uleth.ca/ross/ppgs/ppg.html

Calendar Year: 2010/2011 Faculty: Arts & Science

About the Department of Kinesiology and Physical Education

The Department of Kinesiology and Physical Education offers a multidisciplinary major in Exercise Science for the Bachelor of Science (B.Sc.) degree. This major is designed for those students who wish to pursue advanced studies of physical activity from a natural sciences perspective. Students gain an understanding of human movement by integrating the study areas of Anatomy, Biomechanics, Exercise Physiology, and Motor Control.

Career Options

 $\label{thm:continuous} \mbox{Graduates of Exercise Science have a variety of career options that may lead into diverse areas, including \mbox{\sc diverse}$

- sports medicine
- · athletic therapy
- coaching
- · cardiac rehabilitation
- sports nutrition
- · exercise prescription
- · therapy and rehabilitation
- · exercise physiology
- · fitness/wellness industry
- · sport and exercise psychology

Careful selection of the options available in this major will tailor a degree to the specific interest of the student.

Contact a Kinesiology Professor

Students interested in a specific stream or advice on course selection for a specific area should see the following Kinesiology professors:

For Sport/Exercise Psychology

Dr. Jochen Bocksnick

Dr. Sharleen Hoar

For Exercise Physiology

Dr. Francois Billaut

Dr. Jennifer Copeland

For Biomechanics and Skill Analysis

Dr. Lesley Brown

Dr. Jon Doan

Dr. Gongbing Shan

Co-operative Education

A Co-op option, requiring three work terms, is available. Students interested in the Co-operative Education/Internship program should contact the Coordinator of Co-operative Education in the Career Resources Centre (B610 | phone: 403-382-7154) for further information.

Exercise Science

Bachelor of Scien

High School Courses

Several university-level science courses have high school-level courses as recommended background or prerequisites. Students are advised to complete recommended background courses before registering in the university-level course; students must have successfully completed prerequisites before they may register in the university-level course. Students pursuing an Exercise Science major should note the following recommended/required high school courses.

UofL Science course		High School course	
Biochemistry	2300	Chemistry 30**	
Biology	1010	Biology 30 and Chemistry 30**	
Chemistry	1110	Recommended: Chemistry 30** and Pure Mathematics 30*	
Mathematics	1560	Pure Mathematics 30* Recommended: Mathematics 31 and a blended grade of at least 75% in Pure Mathematics 30*	
Physics	1000 1050	Physics 30 and Pure Mathematics 30* Pure Mathematics 30* Recommended: One course in the physical sciences at the 20 level or above	
Statistics	1770	Pure Mathematics 30*	

^{*} Instead of Pure Mathematics 30, students may use UofL's Mathematics 0500, or both Applied Mathematics 30 and a minimum grade of 75% in Athabasca University's Mathematics 101.

Program Requirements

The B.Sc. degree with a multidisciplinary major in Exercise Science requires 40 semester courses, including 20 courses in the major.

Athletic Therapy Option

The Department of Kinesiology and Physical Education, in collaboration with Mount Royal University in Calgary, offers a limited number (five) of B.Sc. Exercise Science majors the opportunity to pursue an Athletic Therapy Option. These students will attend the University of Lethbridge for Years 1, 2, and 4 of their B.Sc. - Exercise Science degree program. They will complete Year 3 as Visiting Students at Mount Royal University. For details concerning eligibility and course requirements, contact the Department of Kinesiology and Physical Education and see the Program Planning Enclosure.

Transfer Credit

Remember that you may use both University of Lethbridge credit and credit transferred from another college or university to meet degree and major requirements. Transfer credit may be either specified or unspecified. Specified credit is indicated on your transcript by the subject name and the specific number of the course, e.g., Biology 1010, Kinesiology 2600, etc. Unspecified credit (1XXX, 2XXX, etc.) is indicated by the subject name and level of the course in parentheses, e.g., Biology (1000 level), Kinesiology (2000 level), etc.

Unspecified Course Credit

Unspecified course credit means that the University of Lethbridge does not offer the same course you transferred in, but we recognize it and treat it as a regular course. An unspecified course would count as one of your maximum of 20 from one department, but it could not meet a specific course requirement. For example, if Kinesiology 1000 is required in your program, you could not use Kinesiology (1000 level) to fulfill that requirement. Students with unspecified transfer credit need to consult an Academic Advisor to establish how the transfer credit fits in the degree program. This should be done as soon as possible after transfer credit is awarded.

Program Worksheet

Name:_		ID:
Required	Cour	ses (12 courses):
	1.	Biochemistry 2300 - Elements of Human Nutrition
	2.	Biology 1010 - Cellular Basis of Life
	3.	Chemistry 1110 - Chemistry for Life Sciences I
	4.	Kinesiology 1000 - Wellness and Physical Activity
	5.	Kinesiology 2200 - Research Methodologies in Physical Activity Involvement
	6.	Kinesiology 2600 - Functional Human Anatomy
	7.	Kinesiology 2610 - Human Physiology
	8.	Kinesiology 3610 - Exercise Physiology
	q	Kinesiology 3630 - Growth Development and Aging

^{**} Instead of Chemistry 30, students may use UofL's Chemistry 0500.

	10.	Kinesiology 3650 - Biomechanics
	11.	Mathematics 1560 - Calculus I
	12.	Neuroscience 2600 - Brain and Behaviour
Option	ıs:	
EIGHT	courses fi	rom the following; a minimum of SIX courses from the Options list must be at the 3000/4000 level:
		Biochemistry 2000 - Introductory Biochemistry
		Chemistry 2120 - Chemistry for Life Sciences II
		Engineering 2000 - Engineering Statics
		Engineering 2060 - Engineering Mechanics
		Kinesiology 2000 - Foundations of Motor Skill Acquisition
		Kinesiology 2350 - Recognition and Care of Athletic Injuries
		Kinesiology 2520 - Contemporary Health Issues
		Kinesiology 3670 - Motor Skill Learning
		Kinesiology 3680 - Sport Psychology
		Kinesiology 3690 - Motor Control
		Kinesiology 3780 - Exercise Psychology
		Kinesiology 4500 - Physical Activity and Aging
		Kinesiology 4610 - Fitness and Lifestyle Assessment
		Kinesiology 4630 - Physical Activity and Special Populations
		Kinesiology 4660 - Biomechanical Instrumentation and Analysis
		Kinesiology 4665 - Biomechanical Modelling
		* Philosophy 3402 - Biomedical Ethics
		** Physics 3200 - Mechanics
		Psychology 1000 - Basic Concepts of Psychology
		Psychology 2110 - Introduction to Child Development
		Psychology 2320 - Cognition and Perception: Thinking and Seeing
		Psychology 3120 - Psychology of Aging
		ONE of: Physics 1000 - Introduction to Physics I or Physics 1050 - Introduction to Biophysics
		ONE of: Psychology 2030 - Methods and Statistics or Statistics 1770 - Introduction to Probability and Statistics
		Specific offerings under Kinesiology 2850/Kinesiology 3850/Kinesiology 4850 - Special Topics, Applied Studies, and Independent Studies may be acceptable as Options selections in the major with permission of the Department Chair

Remember: A minimum of 20 courses is required for this major.

^{*}Prerequisite required: One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy.

^{**}Prerequisite required: Physics 2000 and Mathematics 2580.

Sample Sequencing Plan

Shown below is a sample sequence of courses for your degree. If you follow this plan, you should be able to graduate in four years, provided you complete five courses per semester. This is just one example of how you could complete your major and degree requirements; you may find that a different sequence works as well as this one.

Year 1, Fall
Biochemistry 23001
Kinesiology 1000
GLER course

GLER course GLER course

Year 2, Fall

Chemistry 1110 Kinesiology 2600 Kinesiology 2610 GLER course GLER course

Year 3, Fall

Neuroscience 2600

Options list course 3000/4000

. level

Science elective Elective Elective

Year 4, Fall

Options list course 3000/4000

level

Options list course 3000/4000

level

Science elective Elective

Elective

Year 1, Spring

Biology 1010 Mathematics 1560 GLER course GLER course Science elective

Year 2, Spring

Kinesiology 2200 Kinesiology 3610 Kinesiology 3650 Options list course Science elective

Year 3, Spring

Kinesiology 3630

Options list course 3000/4000

. level

Options list course Science elective Elective

Year 4, Spring

Options list course 3000/4000

level

Options list course 3000/4000

level

Science elective

Elective 3000/4000 level

Elective

Note: For detailed information about the Athletic Therapy Option (Mount Royal University), students are directed to the Program Planning Enclosure. Because of sequencing considerations, students interested in preparing for this Option must consult Arts and Science Student Program Services (SUGG).

Terms Used

GLER course: A course that could count toward the General Liberal Education Requirement. You may use courses in your major towards this 12-course requirement. See the 2010/2011 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 85) for complete information.

The Faculty of Arts and Science offers Liberal Education 1000 and 2000, specifically designed to introduce first-year students to the wide scope of human knowledge and teach essential university success skills, critical thinking, and integrative thinking (see the 2010/2011 University of Lethbridge Calendar, Part 14 Courses, p. 306). LBED 1000 and 2000 may be used toward satisfying the GLER.

Elective: A course that you may choose freely from all those available and applicable to your program. Use courses inside or outside your major, bearing in mind any restrictions that may apply (e.g., a maximum of 20 courses from any one department).



¹ Semester of offering may vary.