



University of
Lethbridge



2020/21

UNIVERSITY OF LETHBRIDGE

UNDERGRADUATE CALENDAR AND COURSE CATALOGUE

University of
Lethbridge



Undergraduate Calendar and Course Catalogue 2020/2021

**The University of Lethbridge Calendar and Course Catalogue is also available online at
www.uleth.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 2020/2021 Calendar, which have been changed in the online edition, will be posted at www.uleth.ca/ross/academic-calendar/updates. Check this web page regularly to keep informed of changes.

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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 Siksikaitapii 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.

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.

Founded on the principles of liberal education, the University of Lethbridge provides undergraduate and graduate programs in education, fine arts, health sciences, humanities, management, nursing, sciences, and social sciences, leading to bachelor's, master's and doctoral degrees. The institution also provides certificate programs, post-baccalaureate certificate programs, post-graduate certificate programs and post-master's certificate programs that lead to professional specialization, and open studies for lifelong learners.

The University of Lethbridge conducts pure and applied research and establishes and sustains facilities for pursuing original research. The University develops centres of research excellence in areas in which it has special expertise or that have particular relevance to the region or province. Programs of research, scholarship and creative activity include the study of fundamental issues for their intrinsic intellectual, aesthetic or philosophical interest, and of practical challenges of direct importance for social, cultural, economic or environmental well-being. The University of Lethbridge protects free inquiry and scholarship, facilitates access to scholarly resources, and supports artistic expression and the free and open scholarly discussion of issues.

In support of Campus Alberta, the University of Lethbridge collaborates with other institutions to ensure transferability within the province's post-secondary education system and delivers seamless learning opportunities. As part of this commitment, the University works with other institutions to provide degree completion opportunities for university transfer students and diploma graduates.

Across the spectrum of intellectual pursuit, the University of Lethbridge continually develops innovative programs and research collections in existing and emerging disciplines to meet the needs of students, society and the economy. This includes collaborating with First Nations, Métis and Inuit peoples to develop programs and collections that are relevant and accessible to them.

The University of Lethbridge serves a variety of student groups: undergraduate and graduate students; transfer students; high school graduates; First Nations, Métis and Inuit students; adult learners; international students; and immigrants. It also serves students through a campus in Calgary and, through distance learning technology, students across the province, the country and the world. The University of Lethbridge strives to make university-level education available to all Albertans, including those living outside major urban centres and those who have traditionally not sought university education.

The University of Lethbridge fosters a learning community that meets the educational and personal growth needs of its students. This learning community emphasizes teaching excellence, exposure to research, information literacy, interaction with professors and instructors, effective academic advising and personal counselling, and a spectrum of cultural, recreational and extracurricular opportunities. The University of Lethbridge values a high quality of teaching and emphasizes the mutually beneficial relationship between teaching and research. Other facilities and services, such as the Library, student residences, health services, theatres and other performance spaces, and sports and recreation facilities support and enrich the student experience and the lives of community members while respecting environmental sustainability. The University strives to enhance its educational environment through innovation and creativity.

The University of Lethbridge builds mutually supportive relationships and partnerships, addresses the cultural and societal needs of the communities it touches, and advocates the critical role that education plays in the growth and well-being of an informed society. The University further contributes to society by discovering, preserving, synthesizing and disseminating knowledge for the benefit of all.

*Approved by the Minister, Alberta Advanced Education and Technology
June 24, 2010*

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.

DESTINATION 2022

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.

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.

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.

OUR FUNDAMENTAL PRINCIPLES

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

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.

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.

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.

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*

LIBERAL EDUCATION AT THE UNIVERSITY OF LETHBRIDGE

Liberal education has been a community tradition at the University of Lethbridge since its founding. Our approach to education continues to produce creative explorers and innovative thinkers who will lead in a complex global world. Our liberal education philosophy guides the academic and research activities that enable students to develop the skills to think critically and creatively, communicate clearly, work collaboratively, solve complex problems and contribute fully to society as engaged and informed global citizens and leaders. The collaboration and integration inherent in liberal education have distinguished the University of Lethbridge as an attractive destination for potential students. This transdisciplinary focus and transformational learning experience unify the University of Lethbridge and set our programming apart from other institutions. The qualities developed in a liberal education are important for citizens in a democratic society, and with these qualities, University of Lethbridge graduates gain a competitive advantage to succeed in their chosen disciplines.

“Liberal Education is an education that is ‘liberal’ in that it liberates the mind from the bondage of habit and custom, producing people who can function with sensitivity and alertness as citizens of the whole world.”

Martha C. Nussbaum, *Cultivating Humanity*, 1997

The School of Liberal Education was established to integrate liberal education programming throughout the University. Information on School philosophies and policies can be found in **School of Liberal Education, p. 69**.

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 8,900 full-time and part-time students, with approximately 650 graduate students and 600 international students from more than 100 countries. The University also offers programs at our Calgary Campus, serving nearly 700 students. There are more than 45,000 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.

The University of Lethbridge is ranked sixth in the 2019 Maclean’s University Rankings in the primarily undergraduate category and ranked third in Research Infosource Inc.’s Undergraduate Research Universities of the Year (Undergraduate Category), 2019.

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 also 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 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 Fine Arts - Art (B.F.A. - Art), Bachelor of Fine Arts - Dramatic Arts (B.F.A. - Dramatic Arts), Bachelor of Fine Arts - Multidisciplinary (B.F.A. - Multidisciplinary), Bachelor of Fine Arts - Native American Art (B.F.A. - Native American Art), 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.). A post-diploma degree programs is also available for the Addictions Counselling and Public Health majors in the Bachelor of Health Sciences.

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 certificate programs and the Post-Bachelor Certificate in Accounting program.

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 in Advanced Clinical Study of Addiction (G.C.A.C.S.A.), Graduate Certificate in Health Services Management (G.C.H.S.M.), Graduate Diploma in Addiction and Mental Health Psychotherapy (G.D.A.M.H.P.), 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.

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.'



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.uleth.ca/policy/principles-student-citizenship.

NOTICES TO STUDENTS

Regarding the Collection of Personal Data

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 which 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
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)*.

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:

403-320-5700 regoffice@uleth.ca

FACULTY/SCHOOL RECORDS

The University's Faculties and Schools collect personal information about students. This information includes class lists including pictures, records of a student's attendance at class, completion of assignments, marks 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:

Arts and Science	403-329-5101	artsci.deansoffice@uleth.ca
Dhillon School of Business	403-329-2633	management.dean@uleth.ca
Education	403-329-2254	edu.sps@uleth.ca
Fine Arts	403-329-2126	finearts@uleth.ca
Graduate Studies	403-329-2793	sgs@uleth.ca
Health Sciences	403-329-2676	dean.hlsc@uleth.ca
Liberal Education	403-380-1894	liberal-ed@uleth.ca

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:

403-329-2261 libadmin@uleth.ca

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 (**Awards and Scholarships, p. 453**), 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:

403-329-2585 fin.aid@uleth.ca

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:

403-329-2213 housing@uleth.ca

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:

403-332-4664 help@uleth.ca

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:

403-329-2391 financial.services@uleth.ca

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:

403-329-2484 health.centre@uleth.ca

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 Executive Director, Sport and Recreation Services:

403-329-2380 ken.mcinnis@uleth.ca

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 Executive Director, Sport and Recreation Services:

403-329-2380 ken.mcinnis@uleth.ca

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:

403-329-2126 finearts@uleth.ca

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:

403-329-2603 security.inquiries@uleth.ca

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.

403-329-2190 security-i@uleth.ca

403-329-2350

ERRATA AND ADDENDA

The University of Lethbridge Undergraduate Calendar and Course Catalogue is 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 2020/2021 Calendar will be posted at www.uleth.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

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.

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

The Academic Schedule is also available online and contains a tentative schedule (subject to change) for Summer 2021 to Spring 2023. Updated information will be available from the Registrar's Office website at www.uleth.ca/ross/academic-schedule.

Admission application and document deadlines – see page 20.

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 2020 to Spring 2021

Summer Term 2020	
Summer Term – full term	May 4 - Aug 5
Summer Session I	May 4 - Jun 15
Summer Session II	Jul 6 - Jul 24
Summer Session II/III	Jul 6 - Aug 17
Summer Session III	Aug 5 - Aug 25
Fall Term 2020	Sep 9 - Dec 9
Spring Term 2021	Jan 6 - Apr 12

Summer Term 2020

May 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

May

May 1	First day of the academic year.
May 4	First day of Summer Term – full term (classes begin).
May 4	First day of Summer Session I (classes begin).
May 4	Orientation meeting for students registered in Education 2500.
May 7	Last day for course add/drop and registration for Summer Session I, for all students.
May 8	Registration for Audit Students for Summer Session I.
May 8 - 12	Submission of Credit/Non-Credit course designations for Summer Session I.
May 11	Last day for cancellation of course registration (extended drop) for Summer Session I. After this date, students are assessed full fees.**
May 11	Last day for course add/drop and registration for Summer Term – full term, including Independent Study and Undergraduate Thesis courses.
May 11	First day for submission of Credit/Non-Credit course designations for Summer Term - full term.
May 11, 12	Registration for Audit Students for Summer Term – full term.
May 18	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.**
May 28, 29	Spring Convocation.

June

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.**
Jun 8	Deadline for submission of Grade Appeal forms for courses completed in the Spring term.
Jun 15	Last day of classes for Summer Session I.
Jun 15	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session I.
Jun 15	Last day for application for Withdrawal with Cause for Summer Session I.
Jun 16	Summer Session I final examinations for Tuesday-Thursday classes.*
Jun 17	Summer Session I final examinations for Monday-Wednesday classes.*
Jun 19	Summer Session I final examinations for Friday-Saturday classes.*
Jun 19	Last day of Summer Session I.
Jun 29 - Jul 4	Summer Term Break (Summer Term – full term classes only) (No classes)

July

Jul 1	Canada Day Observance (University offices closed)
Jul 6	First day of Summer Session II and II/III (classes begin).
Jul 9	Last day for course add/drop and registration for Summer Session II and II/III, for all students.
Jul 10	Registration for Audit Students for Summer Session II and II/III.
Jul 10 - 14	Submission of Credit/Non-Credit course designations for Summer Session II and II/III.
Jul 13	Last day for cancellation of course registration (extended drop) for Summer Session II and II/III. After this date, students are assessed full fees.**
Jul 24	Last day of classes for Summer Session II.
Jul 24	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session II.
Jul 24	Last day for application for Withdrawal with Cause for Summer Session II.
Jul 27	Summer Session II final examinations.
Jul 27	Last day of Summer Session II.
Jul 28	Last Tuesday class meeting for Summer Term – full term courses scheduled Tuesday only.
Jul 29	Last Wednesday class meeting for Summer Term – full term courses scheduled Wednesday only.

August

Aug 1	Deadline for Application for Graduation for Fall Convocation.
Aug 1	Registration begins for Open Studies and Visiting Students for the Fall term.
Aug 3	Civic Holiday (University offices closed)
Aug 4	Deadline for Application for Visiting Student Authorization for Visiting Studies in the Fall term.
Aug 5	Additional and last class meeting for Summer Term – full term courses scheduled on Monday only.
Aug 5	Last day of classes for Summer Term – full term.
Aug 5	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Term – full term courses (May - August).
Aug 5	Last day for application for Withdrawal with Cause for the Summer Term – full term.
Aug 5	First day of Summer Session III (classes begin).
Aug 8	Summer Term – full term final examination period begins.
Aug 10	Last day for course add/drop and registration for Summer Session III, for all students.
Aug 10	Last day for cancellation of course registration (extended drop) for Summer Session III. After this date, students are assessed full fees.**
Aug 10	Registration for Audit Students for Summer Session III.
Aug 10 - 12	Submission of Credit/Non-Credit course designations for Summer Session III.
Aug 17	Summer Term – full term final examination period ends.
Aug 17	Last day of Summer Term – full term.
Aug 17	Last day of classes for Summer Session II/III.
Aug 17	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session II/III.
Aug 17	Last day for application for Withdrawal with Cause for Summer Session II/III.
Aug 18	Summer Session II/III final examinations for Tuesday-Thursday classes.*
Aug 19	Summer Session II/III final examinations for Monday-Wednesday classes.*
Aug 19	Last day of Summer Session II/III.
Aug 25	Last day of classes for Summer Session III.
Aug 25	Last day for withdrawal from individual courses, or complete withdrawal, for Summer Session III.
Aug 25	Last day for application for Withdrawal with Cause for Summer Session III.
Aug 26	Summer Session III final examinations.
Aug 26	Last day of Summer Session III.
Aug 31	Deadline for receipt of outstanding documents in support of an Application for Graduation for students completing program requirements in Summer Session.
Aug 31 - Sep 8	New Student Orientation (Open to all students).

Grade Submission:

Deadline for submission of final grades – 12:00 p.m. (noon)

Session I:	Jun 22, 2020
Session II:	Jul 30, 2020
Session II/III:	Aug 31, 2020
Session III:	Aug 31, 2020
Summer – full term:	Aug 31, 2020

Notes:

- * Calgary campus final examination schedule may vary slightly from the Lethbridge campus schedule.
- ** See Fees (p. 39)

Fall Term 2020

September 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

October 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

November 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

December 2020						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September

- Aug 31 - Sep 8 New Student Orientation (Open to all students).
- Sep 4 Deadline for Withdrawal of Application for Graduation for Fall Convocation.
- Sep 7 Labour Day (University offices closed)
- Sep 7, 8 New Graduate Student Orientation (Open to all students).
- Sep 8 Orientation meeting and classes for Professional Semester I students in the Faculty of Education.
- Sep 9 First day of Fall term (classes begin).
- Sep 9 Orientation meeting for students registered in Education 2500.
- Sep 15 Last day for course add/drop and registration for the Fall term, including Independent Study and Undergraduate Thesis courses.
- Sep 16 First day for submission of Credit/Non-Credit course designations.
- Sep 16, 17 Registration for Audit Students.
- Sep 24 Last day for cancellation of course registration (extended drop) for the Fall term. After this date, students are assessed full fees.**

October

- Oct 1 Last day for submission of Credit/Non-Credit course designations.
- Oct 1 Fees due.**
- Oct 7 Deadline for submission of Grade Appeal forms for courses completed in Summer Session.
- Oct 12 Thanksgiving (University offices closed)
- Oct 17 Fall Convocation.
- Oct 19 Registration dates available on the Bridge.

November

- Nov 1 Deadline for Application for Graduation for students completing program requirements in the Fall term.
- Nov 9 - 14 Fall Term Break (No classes)
- Nov 11 Remembrance Day Observance (University offices closed)

December

- Dec 2 Last Wednesday class meeting for courses scheduled Wednesday only.
- Dec 4 Last class meeting for courses scheduled Wednesday/Friday only.
- Dec 9 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 11 Fall term final examination period begins.*
- Dec 15 Deadline for Application for Visiting Student Authorization for Visiting Studies in the Spring term.
- Dec 16 Registration begins for Open Studies and Visiting Students for the Spring term.
- Dec 19 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 19 Last day of Fall term.
- Dec 24 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)

Grade Submission:

Deadline for submission of final grades – 12:00 p.m. (noon)

Fall term: Dec 22, 2020

Notes:

* Calgary campus final examination schedule may vary slightly from the Lethbridge campus schedule.

** See Fees (p. 39)

Spring Term 2021

January 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

March 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

April 2021						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

January

Jan 1	New Year's Observance (University offices closed)
Jan 4	University open.
Jan 6	New Student Orientation (available to all students online).
Jan 6	First day of Spring term.
Jan 6	Orientation meeting for students registered in Education 2500.
Jan 8	Orientation meeting for Professional Semester II students in the Faculty of Education.
Jan 9	First day of classes.
Jan 11	Deadline for Withdrawal of Application for Graduation for February conferral.
Jan 18	Last day for course add/drop and registration for the Spring term, including Independent Study and Undergraduate Thesis courses.
Jan 19	First day for submission of Credit/Non-Credit course designations.
Jan 19, 20	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.**

February

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.**
Feb 8	Deadline for submission of Grade Appeal forms for courses completed in the Fall term.
Feb 13 - 19	Spring Term Break (No classes)
Feb 15	Family Day (University offices closed)

March

Mar 1	Registration dates available on the Bridge.
Mar 1	Deadline for Application for Graduation for Spring Convocation.

April

Apr 1	Deadline for Application for Visiting Student Authorization for Visiting Studies in Summer Session.
Apr 2	Good Friday (University offices closed)
Apr 5	Easter Monday (University offices closed)
Apr 12	Last day for withdrawal from individual courses, or complete withdrawal, for the Spring term.
Apr 12	Last day for application for Withdrawal with Cause for the Spring term.
Apr 12	Last day for submission of Application for Placement form for Professional Semester III students intending to complete requirements in the Fall term.
Apr 13	Last class for all courses scheduled on Friday.
Apr 13	Last day of classes for Spring term.
Apr 15	Spring term final examination period begins.*
Apr 16	Registration begins for Open Studies and Visiting Students for Summer Session.
Apr 23	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 23	Last day of Spring term.
Apr 30	Deadline for Withdrawal of Application for Graduation for Spring Convocation.
Apr 30	Deadline for receipt of outstanding documents in support of an Application for Graduation for Spring Convocation.
Apr 30	Last day of the academic year.

Grade Submission:

Deadline for submission of final grades – 12:00 p.m. (noon)

Spring term: Apr 28, 2021

Notes:

* *Calgary campus final examination schedule may vary slightly from the Lethbridge campus schedule.*

** *See Fees (p. 39)*

ADMISSION

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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 studies, may register in credit courses through **Open Studies** (see **Registration, Open Studies Student, p. 35**).

The Registrar's Office is responsible for all applications for admission:

Office: SU140 (Students' Union Building)
 Hours: Monday to Friday, 8:30 a.m. - 4:30 p.m.
 Email: inquiries@uleth.ca
 Phone: 403-382-7134
 Fax: 403-329-5159
 Web: www.uleth.ca/future-student/application

Admission information within this Calendar pertains to applicants beginning studies in the 2020/2021 academic year. Admission requirements for future years will be available upon approval at www.uleth.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. 39**). 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. Applicants may also download the application in PDF format from www.uleth.ca/ross/admissions.

Continuing students submit a *Request to Change a Program or Major* form (see **Continuing Students Changing Programs, p. 26**).

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.uleth.ca/ross/admissions/undergrad/deadlines and **Admission Documents, p. 27**).

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. 39**).

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 non-matriculated 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:

Faculty of Arts and Science	p. 75
Faculty of Education	p. 123
Faculty of Fine Arts	p. 139
Faculty of Health Sciences	p. 165
Dhillon School of Business	p. 177
Combined Degrees	p. 201

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.uleth.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.uleth.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.uleth.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. 26**). Some programs may have additional admission requirements. For a complete list, see **Additional Admission Requirements by Program, p. 20**.

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, the Registrar's Office 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.uleth.ca/ross/admissions/undergrad/high-school.

**Alberta, N.W.T., and Nunavut
One academic English Language Arts course:**

- English Language Arts 30-1

Three approved courses chosen from:

- Aboriginal Studies 30
- Art 30 or Art 31
- Biology 30
- Chemistry 30
- Choral Music 30, General Music 30, or Instrumental Music 30
- Dance 35
- Drama 30
- Mathematics 30-1 or Mathematics 30-2
- Mathematics 31
- Physics 30
- Science 30
- Social Studies 30-1
- Five credits in Advanced-level CTS Computer Science (CSE)
- One or more distinct languages at the 30 level

One additional course than 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 30-1 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. 28**). 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.uleth.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.uleth.ca/ross/ted). To be eligible for transfer credit, an official AP transcript must be received by the final official document deadline (see www.uleth.ca/ross/admissions/undergrad/deadlines).

To obtain AP transcripts:

AP College Board ATP (Transcript Department)
P.O. Box 6671

Princeton, NJ 08451-6671

<https://apscore.collegeboard.org/scores/score-reporting> (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.uleth.ca/ross/ted). To be eligible for transfer credit, an official IB transcript must be received by the final official document deadline (see www.uleth.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.

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 <http://alis.alberta.ca/pdf/transferralberta/Upgrading.pdf>. 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. 20**.

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. 21)** requirements.

All transferable post-secondary work completed by an applicant, as indicated on the academic 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. 28)**.

When necessary for the purposes of calculating the admission GPA and awarding transfer credit, the Registrar's Office 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. 28)**).

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. The Registrar's Office 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. 22**) 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. 28**).

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.uleth.ca/ross/post-diploma.

Some programs may have additional admission requirements. For a complete list, see **Additional Admission Requirements by Program, p. 20**.

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. 22)**.

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. The Registrar's Office 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. 51)**.

Applicants are required to meet major specific admission requirements, as applicable. See www.uleth.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. 35**).

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, the Registrar's Office 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. 25)**.

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. 21)** 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 the applicant's potential for success in university studies, how the applicant's experiences since secondary school have contributed to this potential, the applicant's goals for the future, and why studies at the University will help the applicant 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. 22**).

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. 25**.

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. 281)** 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. 79**), will be admitted to any Arts and Science undergraduate program for which they have the required prerequisite courses (see **Arts and Science, Admission, p. 78**). 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. 26**). Some programs have additional admission requirements or higher standards for entry that must be met before admission will be considered.

e. 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. 26** 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.uleth.ca/international/eap. Additional information regarding EAP program requirements can be found within **University of Lethbridge International, p. 61**.

f. 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.

g. 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 (see **Dual Admission Partner Institutions, p. 486**).

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. 22**).

To learn more about dual admission, please visit the website www.uleth.ca/ross/admissions/undergrad/dual-admission.

h. 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. 22**).

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. 75)**, **Faculty of Education (p. 123)**, **Faculty of Fine Arts (p. 139)**, **Faculty of Health Sciences (p. 165)**, and **Dhillon School of Business (p. 177)**.

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):

Single Degree Programs

B.A., B.Sc., B.Asc., B.F.A. - Art, B.F.A. - Dramatic Arts, B.F.A. - Multidisciplinary, B.F.A. - Native American Art, B.F.A. - New Media, B.Mus., B.H.Sc., B.N., B.T.R., B.Mgt.	20 ungraded courses (60.0 credit hours)
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Combined Degree Programs

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)
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Post-Diploma Programs

B.A., B.Sc., B.Asc., 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)
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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, the Registrar's Office 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 the Registrar 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.

i. 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. 20**.

a. Competitive Programs

Applicants seeking to change to competitive programs must meet the GPA requirements. See **Additional Admission Requirements by Program, p. 20**.

b. 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 part 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. 23**).

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. 21)** (see www.uleth.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. 22)**.
- All applicants must meet additional admission requirements specific to their program (see **Additional Admission Requirements by Program, p. 20**).

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. 42**) 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, p. 170**).

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.uleth.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. 22**).
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 **p. 62**).
- 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 (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
- c. Pearson Test of English (PTE) Academic score with a minimum overall score of 54.
Website: 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
- e. Cambridge English: Advanced (CAE), with a minimum score of 'C'.

Website: www.cambridgeenglish.org/exams/advanced

- f. Cambridge English: Proficiency (CPE), with a minimum score of at 'C'.

Website: www.cambridgeenglish.org/exams/proficiency

- g. Michigan English Language Assessment Battery (MELAB)*, with a minimum overall score of 80 and a minimum 76 in each component, including the Speaking test.

Website: www.cambridgemichigan.org/melab

*Effective June 22, 2020 the MELAB test will no longer be accepted.

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.uleth.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:

Registrar's Office
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.uleth.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, he/she 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.uleth.ca/ross/admissions/undergrad/deadlines).

Offers of Admission are not reissued upon fulfillment of the conditions. However, the Registrar's Office 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 the Registrar's Office by the appropriate deadline (see www.uleth.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. 35**). See also **Misrepresentation/Falsified Documents (p. 28)**.

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. 50)**.

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.uleth.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 www.transferalberta.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 the Registrar's Office 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 (www.transferalberta.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.
The Registrar's Office shall develop and apply 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 the Registrar's Office 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. 34)**.

13. The Registrar's Office is responsible for maintaining records of all transfer evaluations at the University.
14. The Registrar's Office 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 the Registrar's Office 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. 35)**.

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. 35)**.

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. 51**).

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 degree or diploma 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. 25**) 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.

16. EXPLANATION OF TERMS

Accredited or Recognized Institution - Generally, an accredited or recognized post-secondary institution is one approved by the government of the country in which it is located to grant degrees, diplomas or certificates, or to provide post-secondary courses leading to these qualifications, or one licensed for post-secondary education purposes.

Credit, specified and unspecified - Advanced course credit may be granted in terms of specific course equivalents (e.g., ENGL 1900) or in terms of approximating subject and course-level credits (e.g., ENGL 1000 level, UNSPECIFIED). These are, respectively, specified and unspecified credit. Specified credits satisfy specific program requirements; appropriate unspecified credit may satisfy specific program requirements.

Transferable course - A course completed at another post-secondary institution that is recognized as university-level for the purposes of admission.

REGISTRATION

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I. STUDENT RECORDS RETENTION POLICY

The permanent official record for each student is maintained by the Registrar's Office. The student record shall be purged according to the following schedule:

- a. 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.
- b. 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.

The Registrar's Office 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.uleth.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 advisor (www.uleth.ca/ross/academic-advising).

Students who require other kinds of information and advice about registration, such as deadlines and procedures, should consult the Registrar's Office website at www.uleth.ca/ross, email regoffice@uleth.ca, phone (403) 320-5700, or visit the Information Centre (SU140).

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 their registration prior to the Extended Drop deadline (see **Course Registration, p. 37**).

3. TERMS USED DURING REGISTRATION

a. The Bridge

The University's online registration system is available for all students on the Bridge (www.uleth.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 the procedure 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 (three term course equivalents) 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 (five term course equivalents) per term. A part-time undergraduate student is registered in fewer than 9.0 credit hours.

For more information, see **Full-time Student (p. 488)** and **Part-time Student (p. 490)** 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. 36)**, 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 the following 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 will be registered in a placeholder course during terms of approved absence from the University of Lethbridge. This allows the student to retain continuing student status. The student will register along with other continuing students for the term following the approved absence, according to the registration instructions for continuing students.
- c. 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. 25**).

- d. 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 the Registrar's Office. See also **Admission, Transfer of Credits for University of Lethbridge Students Studying Elsewhere (p. 29)**.

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. 51**).

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. 35**).

See also **Admission, Information for Incoming Visiting Students (p. 30)** and **Information for Incoming Exchange Students (p. 30)**.

e. Audit a Course

To audit a course, a student must have permission from the instructor to attend classes on the understanding that the student may not participate in class discussions (except by invitation of the instructor), submit assignments or sit for examinations. No degree credit is granted for the course. An *Audit Registration* form must be submitted to the Registrar's Office 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 interested in taking courses to register without having to gain admission 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 the Registrar's Office 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 **English Language Proficiency (ELP), p. 26**).

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 have 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 degree, diploma, or certificate. 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 Office of Applied Studies no later than the published deadline. For more information. See **Applied Studies and Co-operative Education, p. 277**.

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. 35**).

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, p. 43**).

*Note: Students who have been verified as having a disability may receive assistance with registration from the **Accommodated Learning Centre (p. 460)**.*

5. ORDER OF PRIORITY REGISTRATION

Registration occurs in the following order:

1. Graduate students.
2. Fourth-year and higher-standing undergraduate students, including second degree students, Dhillon School of Business Certificate students, and Post-Bachelor Certificate in Accounting students.
3. Third-year standing undergraduate students, including first-year post-diploma students.
4. Second-year standing undergraduate students.
5. First-year standing undergraduate students.
6. English for Academic Purposes (EAP) students.
7. Open Studies students, including incoming Exchange and Visiting students.
8. 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 15.0 (five 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)
Arts and Science	Probation: 12.0 (4) Good Standing Normal: 15.0 (5) Maximum: 18.0 (6)
Education	18.0 (6) in a non-practicum term
Fine Arts	15.0 (5)
Health Sciences	15.0 (5)
Business	Probation: 12.0 (4) Good Standing: 15.0 (5)

Summer Session

Faculty/School	Maximum Credit Hours (Term Course Equivalents)			
	Session I	Session II	Session III	Session II/III
Arts and Science	6.0 (2)	6.0 (2)	6.0 (2)	
Education	9.0 (3)	6.0 (2)	3.0 (1)	
Fine Arts	9.0 (3)	6.0 (2)	6.0 (2)	
Health Sciences	9.0 (3)	6.0 (2)	3.0 (1)	
Business	9.0 (3)	3.0 (1)*	3.0 (1)*	9.0 (3)*

**The maximum number of courses Management students may take over Summer Sessions II, III, and II/III is three.*

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 for any specific course in a given term. Enrolment limits are enforced by all Faculties and Schools.

e. Registration Holds

The University may place holds on a student's registration privileges owing 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 at some point unless a substitution has been approved by the Dean.

7. CLASSROOM PRIVILEGES

Students have classroom privileges for the course offering 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. Canceling Registration

All students must cancel their registration using the Bridge (www.uleth.ca/bridge).

Open Studies students who cancel 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 their registration by the Extended Drop deadline will be assessed tuition and compulsory fees (see **Fees, Cancellations, Refunds and Withdrawals, p. 41**).

b. Waitlists

Waitlists for specific courses may be created by Faculties/Schools. For information regarding waitlists, please see www.uleth.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. 46**).

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 the Registrar's Office receives the request for withdrawal by the relevant deadline (see **Academic Schedule, p. 15**).

a. Course Withdrawal

A student wishing to withdraw from one or more courses in the term, but not all courses, must submit a *Course Withdrawal* form to the Registrar's Office.

b. Complete Withdrawal

A student wishing to withdraw from all courses in the term must submit a *Complete Withdrawal* form to the Registrar's Office.

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 the Registrar's Office.

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. 34**). 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.

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I. DISCLAIMER

Fees for the 2020/2021 academic year were not determined at the time of the initial publication of this Calendar. The fees originally published in this section were the 2019/2020 academic year fees. The 2020/2021 fees are now updated in this Calendar and the Calendar Updates page at www.uleth.ca/ross/academic-calendar/updates.

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 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 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 via Canada Post.** Inquiries about fees are directed to the Cash Office (AH1144; 403-329-2469; 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 Funds* 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.

c. Government Loans and Grants

See **General Services, Student Finance - Government Student Loans and Grants (p. 469)**. Inquiries are directed to the Scholarship and Student Finance office (AH115; 403-329-2585).

d. Scholarships and Bursaries

See **General Services, Student Awards - Scholarships and Bursaries (p. 468)**. Inquiries are directed to the Scholarships and Student Finance office (AH115; 403-329-2585).

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 and will not 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. Students who present student loan forms at the Cash Office will have their outstanding fees automatically deducted from the loan (for details, see **First Charge for Student Loans, Bursaries and Scholarships**, p. 41).

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). Printed receipts are not issued unless requested to the cash office. The Tuition and

Enrolment Certificate (T2202) required for completing personal tax returns are available for download from the students' Bridge accounts before the end of the following February. The Canada Revenue Agency (CRA) requires all student to include their social insurance number (SIN) on the T2202 form. This can be entered on the students' Bridge Account under Personal Information - Update Social Insurance Number. This will update the students' record so that the form will be available to print out. 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. 34)**.
- **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. 34)**.
- **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

a. Where to Pay Fees

1. Bill payment 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 your 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
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.
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. 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.

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 student loan or 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, 2020 based on the prime rate posted that day for the full 2020/2021 year.

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

d. First Charge for Student Loans, Bursaries and Scholarships

100% of current and outstanding fees are the first charge against assistance received from the federal or provincial government as student loan certificates/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). For Extended Drop deadlines, see the **Academic Schedule (p. 15)**.

b. Refunds

Cancellation - 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 student loan and scholarship refunds.

Refunds can be received by cheque (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). 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.

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. 37)**.

5. NON-REFUNDABLE APPLICATION AND REGISTRATION FEES

a. 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 domestic 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.

All international applicants who have previously submitted an *Application for Admission* to a level of studies (e.g. undergraduate) will also pay the application fee of \$50 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 \$20 registration fee each term they wish to register in courses. For more information, see **Registration, Open Studies Student (p. 35)**.

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 readmitted 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 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*.

b. Open Studies Tuition Deposit

All Open Studies registrants are required to pay a non-refundable tuition deposit of \$80 each term they register in courses. The tuition deposit is applied to tuition fees incurred by the student. For more information, see **Registration, Open Studies Student (p. 35)**.

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:

- *1st Choice Savings Centre for Sport and Wellness Contribution Fee* - Contribution to the 1st Choice Savings Centre for Sport and Wellness.
- *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. 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.
- *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:

- *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).
- *International Health Centre Fee* - The health plan for International students.

3. Pronghorn Athletics Participation Activity Fee:
- This fee is \$500 for all varsity athletes and will be assessed in the Fall and Spring terms each year. This will start for NEW athletes in Fall 2020 and Fall 2021 for athletes on the 2019-20 varsity rosters. 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 Women's Centre Fee* - Supports the operations of the Campus Women's Centre.
- CKXU Fee* - Supports the operations of the student radio station.
- Lethbridge Public Interest Research Group (LPIRG) Fee* - Supports the operations of the Lethbridge Public Interest Research Group.
- Meliorist Fee* - Supports the operations of the student newspaper.
- World University Service Canada Fee* - Supports the University of Lethbridge Refugee Program through the World University Service of Canada.
- UPASS Fee* - Supports a citywide transit pass for all part- and full-time undergraduate students, 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 a rental fee of \$68.20 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. In prior years, 50% of this fee was refundable which has changed to a full rental fee in 2020/21.
- 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. 163)**, and **Music Ensemble Activity Fees (p. 163)**.
- Music Instrument Rental Fee* - Additional fee for Education 3875 or Education 3876 enrolment to defray maintenance costs of musical instruments.

- Music Studio Differential Fee* - 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.
- Campus ID Card Fee* - Students' first card is free; \$5 for community users; \$11.05 plus \$5.00 UPASS replacement fee for replacement cards.
- Dining Plan Fee* - See **General Services, Housing Services (p. 463)**.
- Late Fee* - Fee charged when deadlines are not met - \$25.
- Library Fines* - Charged fines may be recorded on student accounts.
- Parking Fee* - See **General Services, Campus Safety (p. 460)**.
- Residence Fee* - See **General Services, Housing Services (p. 463)**.
- 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.

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.

8. IMPORTANT DATES AND FEE DEADLINES

	Summer 2020	Fall 2020	Spring 2021
First day of term (classes begin)	Full Term - May 4 Session I - May 4 Session II & II/III - July 9 Session III - August 5	September 9	January 6
Add/Drop Date Last day to register in courses	Full Term - May 11 Session I - May 7 Session II & II/III - July 9 Session III - August 10	September 15	January 12
Extended Drop Deadline Last day to drop courses before tuition, program, and compulsory fees are non-refundable	Full Term - May 25 Session I - May 11 Session II & II/III - July 13 Session III - August 10	September 24	January 25
Health and Dental Opt-out Deadline	N/A	September 25	September 25
Fee Deadline Last day to pay all fees: • Before interest is charged on outstanding balances; and • Before automatic cancellation of registration for non-payment	June 1	October 1	February 1
Withdrawal Deadline Last day to withdraw from courses and receive a "W" on transcripts	Full Term - August 5 Session I - June 15 Session II - July 24 Session II/III - August 17 Session III - August 25	December 11	April 12

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

How Fees Are Assessed

	Full-time		Part-time		Other					
	On Campus	Off Campus	On Campus	Off Campus	Exchange - from U of L	Exchange - to U of L	PSIII, Counselling 4050	Co-op	Senior Citizen	EAP
University of Lethbridge Fees:										
1 st Choice Centre Contribution	Yes	No	Yes	No	No	No	No	No	No	No
Admission to University Program	*	*	*	*	N/A	N/A	N/A	N/A	*	*
Registration for Open Studies	*	*	*	*	N/A	N/A	N/A	N/A	*	*
Student Administrative	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No
Sport and Recreation	Yes	No	Yes	No	No	Yes	No	No	No	Yes
Tuition	Yes	Yes	Yes	Yes	Yes	No	Yes	(1)	No	Yes
Students' Union Fees:										
Building Fund	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No
Operations Fund	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No
Capital Replacement	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No
Health and Dental Plans	Yes(2)	Yes(2)	No	No	Yes(2)	No	Yes(2)	Yes(2)	No	No
International Health Centre (International students only)	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Other Fees:										
Campus Women's Centre	Yes(2)	Yes(2)	Yes(2)	Yes(2)	No	No	Yes(2)	Yes(2)	No	No
CKXU	Yes	No	Yes	No	No	No	No	No	No	No
Leth. Public Interest Research	Yes(2)	Yes(2)	Yes(2)	Yes(2)	No	No	Yes(2)	Yes(2)	No	No
Meliorist	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	No
World University Service Canada	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No
UPASS Fee	Yes(2)	Yes(2)	Yes(2)	Yes(2)	Yes(2)	Yes(2)	Yes(2)	Yes(2)	No	Yes(2)

* If applicable.

¹ See Co-op fee schedule.² Opt-out option available.

ACADEMIC REGULATIONS, POLICIES, AND PROGRAM REQUIREMENTS

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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. 54** and found online (www.uleth.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.uleth.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 can 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).

1. 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, which appears on the back of official University of Lethbridge academic transcripts.

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

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

Example:

	Grade	Grade Points	Weighting Factor	Total Grade Points
Sociology 1000	A =	4	x 3.00	= 12.00
English 1900	B =	3	x 3.00	= 9.00
Mathematics 1560	C =	2	x 3.00	= 6.00
Physical Activity 2130	A =	4	x 1.50	= 6.00
Physics 1000	D =	1	x 3.00	= 3.00
			13.50	36.00
Total grade points = GPA				2.67
Total weighting factor				13.50 = GPA

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.

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 non-grade AU designation is awarded in the case where 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. 35**).

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. 25)** 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. 25)** 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 formal application by the student or their agent to the Registrar in **writing**. A 'W' designation is not factored into the term or cumulative GPA calculations. Students are responsible for ensuring that the Registrar's Office receives the request for withdrawal 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 the Registrar's Office.

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 Post-Bachelor Certificate in Accounting (formerly Professional Diploma in Accounting), 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-Management courses. Education students may elect a maximum of three Education courses as Credit/Non-Credit. For the purpose of this regulation, Management 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 graduate or 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 grade point average; 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 graduate or 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 grade symbols 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. 58**).

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.uleth.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 official academic transcripts to be sent directly to an institution or to be provided to the student, in a sealed envelope. 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.uleth.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

At the University of Lethbridge, 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. 506**). 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 student 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 will be 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 will be 6.0 credit hours, and tuition fees will be assessed on the regular fee basis. Prerequisites will 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. 281**).

The grading mode will be 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, Section 11 (p. 81)**.

For information regarding the Honours Thesis designation and Undergraduate Thesis courses for the B.F.A. - Art degree, see **Faculty of Fine Arts, (p. 150)**, and for the B.F.A. - New Media degree, see **Faculty of Fine Arts, (p. 156)**.

For information regarding the Honours Thesis designation and Undergraduate Thesis courses for the B.Mgt. degree, see **Dhillon School of Business, Section 5. (p. 180)**.

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) 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, p. 69**).

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 degree, diploma, or certificate 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 degree, diploma or certificate 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
Faculty of Arts and Science				
B.A., B.Sc., B.A.Sc.	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., B.A.Sc. (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.

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
Faculty of Education				
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.)
Faculty of Fine Arts				
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. - 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. - Native American 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. - 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. - Multidisciplinary B.F.A. - Native American Art 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.
Faculty of Health Sciences				
B.H.Sc.	40	20 courses, including a minimum of ten 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 Faculty of Health Sciences, p. 172).	7 years for Nursing, Human Anatomy, Human Physiology, and Microbiology courses (see Faculty of Health Sciences, p. 172).	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.

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
Dhillon School of Business				
B.Mgt.	40	20 courses, including 10 3000/4000-level courses in Management. ^{3,4,6}	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 courses in Management. ^{3,4,6}	See Note 2	10 years after admission to the Dhillon School of Business.
Post-Diploma B.Mgt. ¹	20-25	20 courses. ^{3,4,6}	No transfer credit for admission purposes. ²	10 years after admission to the Dhillon School of Business.
Management Certificate	10	5 courses towards a Management Certificate. ^{3,4}	See Note 2	5 years after admission to the Dhillon School of Business.
Post-Bachelor Certificate in Accounting (formerly Professional Diploma in Accounting)	10	5 courses towards the Post-Bachelor Certificate in Accounting (formerly PDA) taken at the University of Lethbridge. ⁶	See Note 2	5 years after admission to the Dhillon School of Business.
Combined Degrees				
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 in Management (7 of which must be at the 3000/4000 level) and 15 in Education.	No limit for Education courses. ²	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 in Management at the 3000/4000 level. ^{3,5,6}	No limit for Arts and Science courses. ²	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 Management courses at the 3000/4000 level. ³	No limit for New Media courses. ²	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 Management courses at the 3000/4000 level. ³	7 years for Public Health courses. ²	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.
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. ¹	35	30 courses, including 8 in Management and 15 in Education.	No limit for Education courses. ²	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
<ol style="list-style-type: none"> 1. There are restrictions on the diploma used as the basis for admission to the Post-Diploma B.Mgt. program. The approved diploma can be no more than eight years old at the point of admission. 2. Management 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. Once admitted, credit is retained until completion of the program (up to a maximum of 10 years after admission). 3. Students who study at an international institution under Exchange Student authorization will count the exchange courses toward meeting the minimum residence requirement. 4. Exceptions apply to certain majors for the ten 3000/4000-level Management 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 Management courses; Economics majors can use 3000/4000-level Economics courses in addition to 3000/4000-level Management courses; Indigenous Governance and Business Management majors can use 3000/4000-level Indigenous Studies courses in addition to 3000/4000-level Management courses; and Political Science majors can use 3000/4000-level Political Science courses in addition to 3000/4000-level Management courses. 5. Exceptions apply to certain majors for the ten 3000/4000-level Management 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 Management courses; Indigenous Governance and Business Management majors can use 3000/4000-level Indigenous Studies courses in addition to 3000/4000-level Management courses; and Political Science majors can use 3000/4000-level Political Science courses in addition to 3000/4000-level Management courses. 6. 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: Management 3100, 3101, 3130, 3131, 3151, 3160, 3171, 3180, 3190, 4110, 4125, 4130, 4151, 4160. 				

4. STUDENT POLICIES

Prior to the 2019/2020 Academic Calendar and Course Catalogue, policies a. - f. (below) were published in Academic Regulations, Policies, and Program Requirements 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.uleth.ca/policy).

a. Assessment of Student Learning Policy and Procedures for Undergraduate Courses

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.uleth.ca/policy/resources/assessment-student-learning-policy-and-procedures-undergraduate-student.

Prior to the 2019/2020 Academic Calendar and Course Catalogue, this policy was published in Academic Regulations, Policies, and Program Requirements and is now available entirely online.

b. 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.uleth.ca/policy/resources/final-grade-appeal-procedure-undergraduate-and-graduate-students.

Prior to the 2019/2020 Academic Calendar and Course Catalogue, this policy was published in Academic Regulations, Policies, and Program Requirements and is now available entirely online.

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.uleth.ca/policy/resources/student-discipline-policy-academic-offences-undergraduate-students.

Prior to the 2019/2020 Academic Calendar and Course Catalogue, this policy was published in Academic Regulations, Policies, and Program Requirements and is now available entirely online.

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. 11**). 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.uleth.ca/policy/resources/student-discipline-policy-non-academic-offenses-undergraduate-and-graduate-students.

Prior to the 2019/2020 Academic Calendar and Course Catalogue, this policy was published in Academic Regulations, Policies, and Program Requirements and is now available entirely online.

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.uleth.ca/policy/resources/caveat-authority-rescind-registration-privilegesprohibit-access-university-property.

Prior to the 2019/2020 Academic Calendar and Course Catalogue, this policy was published in Academic Regulations, Policies, and Program Requirements and is now available entirely online.

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.uleth.ca/policy/resources/appeal-application-policy-other-grade-or-student-discipline-undergraduate-students.

Prior to the 2019/2020 Academic Calendar and Course Catalogue, this policy was published in Academic Regulations, Policies, and Program Requirements and is now available entirely online.

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.uleth.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.uleth.ca/policy.

i. Computer Use 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.uleth.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.uleth.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; 403-332-4472) or consult the wide range of information available on the University's Copyright website (libguides.uleth.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.uleth.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.uleth.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.uleth.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.uleth.ca/policy.

p. Revoking Degrees

The policy defines conditions where a degree could be revoked.

The full policy is available online at www.uleth.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.uleth.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.uleth.ca/policy.

s. Student Safety Abroad 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.uleth.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.uleth.ca/policy.

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1. 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.uleth.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 (see **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, the Registrar's Office 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. 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.uleth.ca/convocation.

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

4. 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 the Registrar's Office 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.uleth.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. 456)**.

5. 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.**

6. 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 the original parchment to the Registrar's Office. Accommodations may be arranged if the original parchment is not able to be submitted.

7. 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.

8. 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 the Registrar's Office.

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 Inskim 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.

9. 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 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.

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

The master's degree hood is a shell of black lined with blue. An exterior border of light blue satin indicates the hood is for a master's-level degree and the distinguishing braid follows the colours of the undergraduate hood.

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

The Doctor of Philosophy hood is a shell of royal blue, lined with sapphire blue satin and a bright gold chevron; the walden blue velvet trim is outlined in bright gold piping.

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. Honorary Degree

Honorary degree recipients wear a blue robe with thin gold trim and gold sleeves, and a blue mortarboard with a gold tassel. Honorary 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.

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.

II. 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. 54**). The full policy is available online at www.uleth.ca/policy/revoking-degrees-policy.

10. 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.

UNIVERSITY OF LETHBRIDGE INTERNATIONAL

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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. 19)**.

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. 26)**.

b. Fees

For information on international student fees, see the fee schedules in **Fees (p. 42)**.

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 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 (see **Collaborating and Partnering Institutions, p. 483**). 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.uleth.ca/international/content/education-abroad.

For further information, contact the International Office (SU040, tel. 403-329-2053, fax 403-382-7140, or email: outgoing@uleth.ca).

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. 30)**.

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) 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. 45)**.

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 (SU040, tel. 403-329-2053, fax 403-382-7140, or email: international.advice@uleth.ca).

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 **English Language Requirements, p. 26**).

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 **English for Academic Purposes Admission Route (p. 24)**.

b. Placement

Placement tests are administered at the beginning of each term to determine each student's current level of ELP. Generally, overall IELTS scores co-relate as such:

IELTS 4.0 - Pre Intermediate

IELTS 4.5 - Intermediate

IELTS 5.0 - High Intermediate

IELTS 5.5 - Advanced

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 **Withdrawal (p. 37)**.

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

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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. 69)** 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.

Phone: 1-403-329-2265

Email: gsd.library@uleth.ca

Web: www.uleth.ca/lib/hours

Library Website

The University of Lethbridge Library website (www.uleth.ca/lib) provides access to resources and services available both on- and off-campus. 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.uleth.ca/lib/Ask_Us). Tours of physical and virtual resources are offered at the beginning of the fall semester 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.

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.

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.uleth.ca/lib/booking), carrels, lounge seating, and tables. 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.uleth.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.

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. 80)** and **Faculty of Arts and Science, Independent Study (p. 80)** 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, and training sessions cover 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 (libguides.uleth.ca).

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.

2. Institutional Repository

Theses, articles, and other research outputs produced by the University of Lethbridge academic community can be accessed electronically (opus.uleth.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.uleth.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.

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, Policies, and Program Requirements, Student Policies (p. 54)** and are available online at www.uleth.ca/lib.

SCHOOL OF LIBERAL EDUCATION

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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.

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.uleth.ca/liberal-education.

The Liberal Education List Requirement (**p. 71**) 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.

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

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, and MGT may be counted in meeting the Liberal Education List Requirement.
3. Cross-listed courses count toward the limit for both disciplines (e.g. Management 3500/Indigenous Studies 3250 counts toward the limit for Management 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. 28**).

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.

LIST I: FINE ARTS AND HUMANITIES COURSES

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 Studies - all courses, including those cross-listed with Management

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 2500 - Introduction to Indigenous Governance and Business Management

Management 3500/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities

Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources

Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance

Management 3710 - Managing Not-for-Profit Organizations

Management 4507/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

Management 4508/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments

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 3510 - Political Thought Before 1500

Political Science 3511 - Political Thought Since 1500 (Series)

Political Science 3525 - Politics and Religion

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

LIST II: SOCIAL SCIENCE COURSES

Aboriginal Health
Aboriginal Health 1000 - Introduction to Aboriginal Health

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 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

Interdisciplinary Studies
Interdisciplinary Studies 2008 - Japanese Culture
Interdisciplinary Studies 2600 - Study Tour of Japan
Interdisciplinary Studies 2601 - Study Tour of South Korea

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 2030 - Introduction to Organizational Behaviour
Management 2100 - Introductory Accounting
Management 3031 - Managing Responsibly in a Global Environment
Management 3050 - Human Resource Management
Management 3070 - Introduction to Supply Chain Management

Management 3250 - Social Marketing
Management 3515 - Canadian Indigenous Negotiations
Management 3522 - Canadian Indigenous Project Management
Management 3551/Geography 3551 - An Introduction to Tourism
Management 3640 - Cross-Cultural Management Practices
Management 3650 - Introduction to International Management
Management 3660/Geography 3225 - Industrial Location and Globalization of Enterprise
Management 3670/Political Science 3170 - The Politics of Canadian Trade Policy
Management 3780/Economics 3080 - Principles of Industrial Organization
Management 4570 - Indigenous Leadership and Management

Political Science - all courses, including those cross-listed with 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

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 3035 - Fluvial Geomorphology
Geography 3060 - Glaciology and Glacial Geomorphology
Geography 3080 - Soils
Geography 3235 - Quantitative Models for Geographic Analysis
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 4415 - Integrated Watershed Management
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 1000 - Basic Concepts of Psychology
Psychology 2030 - Methods and Statistics
Psychology 2330 - Learning and Cognition
Psychology 2700 - Behaviour and Evolution
Psychology 3360 - Sensation and Perception
*Psychology 3370 - Animal and Human Minds
*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

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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.

a. Liberal Education Skills

Literacy: the ability to read and interpret texts from diverse media, discourses and genres, and to express oneself in writing.

Information literacy: the ability to discern when information is needed, and the ability to find, evaluate and use information effectively.

Oral expression: the ability to listen and understand oral messages, and to express oneself effectively in a wide range of interpersonal contexts.

Numeracy: the ability to work effectively with quantitative ideas and mathematical relations.

Critical thinking: the ability to evaluate reasoning systematically and to argue well in support of deserving ideas.

Integrative thinking: the ability to make connections among diverse and superficially unconnected things.

Problem solving: the ability to recognize the problematic nature of the world and the ability to address those problems in a rigorous and imaginative way.

b. Breadth and General Intellectual Background

A *sense of historical consciousness*; an awareness of events in time and their significance to each other; and the relation of oneself and one's community within them.

A wide-ranging grasp of what the *sciences tell us about the world* in which we live; their methods, limitations, purposes and interactions with the global community and the world.

An understanding of the importance of evidence-based and logical reasoning, as the basis for informed decision-making.

Reflection of one's own values and an openness to change.

An understanding of, and a respect for, the causes and consequences of cultural, group and interpersonal differences.

A *critical understanding and an appreciation of the creative and aesthetic dimensions* of life.

The *ability to comprehend and analyze the many facets of social life*.

An *awareness of the body* and the physical contexts in which we apprehend reality, and the development of well-being.

c. Depth of Knowledge

A capacity to *comprehend the complexity of ideas* through sequential, developmental learning in a single subject or discipline.

The development of the competency to *do rigorous independent work* in a subject or discipline.

A *critical grasp* of the assumptions, arguments, approaches and controversies that have shaped particular claims and findings within a subject or discipline, and an understanding of the connections among disciplines.

d. Programs

The Faculty of Arts and Science offers three baccalaureate (i.e. bachelor's) degrees: the Bachelor of Arts (B.A.), the Bachelor of Science (B.Sc.), and the Bachelor of Arts and Science (B.A.Sc.).

A baccalaureate degree is an academic degree awarded by a university to a person who has successfully completed undergraduate studies.

The Bachelor of Arts is awarded in recognition of the satisfactory completion of a prescribed set of program requirements. Students must declare a major in a Humanities, Fine Arts, or Social Science discipline and complete all the requirements for the chosen major and the degree.

The Bachelor of Science is awarded in recognition of the satisfactory completion of a prescribed set of program requirements. Students must declare a major in a Science discipline and complete all the requirements for the chosen major and the degree.

The Bachelor of Arts and Science is awarded in recognition of the satisfactory completion of a prescribed set of program requirements. Students must declare two majors, one in a Humanities, Fine Arts, or Social Science discipline and one in a Science discipline, and complete all the requirements for both chosen majors and for the degree.

All undergraduate degree programs in the Faculty of Arts and Science require students to complete the Liberal Education List Requirement (Lib Ed Requirement). In some post-diploma programs or for the Second Degree program students must complete a modified Lib Ed Requirement. For details, see **School of Liberal Education, Liberal Education List Requirement (p. 71)**.

The Faculty of Arts and Science offers the following programs:

- A 40-course (120.0 credit hour) program leading to the Bachelor of Arts (B.A.) (see **p. 82**).
- A 40-course (120.0 credit hour) program leading to the Bachelor of Science (B.Sc.) (see **p. 82**).
- A 40-course (120.0 credit hour) program leading to the Bachelor of Arts and Science (B.A.Sc.) (see **p. 83**).
- A 20-course (60.0 credit hour) post-diploma program in Agricultural Studies leading to the Bachelor of Arts (B.A.) (see **p. 114**).
- A 20-course (60.0 credit hour) post-diploma program in Agricultural Studies leading to the Bachelor of Science (B.Sc.) (see **p. 115**).
- A 20-course (60.0 credit hour) post-diploma program in Computer Science leading to the Bachelor of Science (B.Sc.) (see **p. 117**).
- A 20-course (60.0 credit hour) post-diploma program in Environmental Science leading to the Bachelor of Science (B.Sc.) (see **p. 117**).
- A 20-course (60.0 credit hour) post-diploma program in Geography, with a Concentration in Geographical Information Science, leading to the Bachelor of Science (B.Sc.) (see **p. 118**).
- A 30-course (90.0 credit hour) program leading to the Bachelor of Arts (B.A.) or Bachelor of Science

(B.Sc.) portion of the Bachelor of Arts/Bachelor of Education (B.A./B.Ed.) or Bachelor of Science/Bachelor of Education (B.Sc./B.Ed.). Neither degree is granted until requirements for the entire combined degrees program are completed. See **Combined Degrees**.

- A 30-course (90.0 credit hour) program leading to the Bachelor of Arts (B.A.) or Bachelor of Science (B.Sc.) portion of the Bachelor of Arts/Bachelor of Management (B.A./B.Mgt.) or Bachelor of Science/Bachelor of Management (B.Sc./B.Mgt.). Neither degree is granted until requirements for the entire combined degrees program are completed. See **Combined Degrees**.
- A 25-course (75.0 credit hour) program leading to the Bachelor of Science (B.Sc.) portion of the Bachelor of Fine Arts - New Media/Bachelor of Science (Computer Science (B.F.A - New Media/ B.Sc.)). Neither degree is granted until requirements for the entire combined degrees program are completed. See **Combined Degrees**.

Students who hold an undergraduate degree may be eligible to complete a minimum 20-course program leading to the B.A., B.Sc., or B.A.Sc. as a second degree. See **B.A., B.Sc. or B.A.Sc. After an Approved Degree (p. 114)**.

The 40-course B.A., B.Sc., and B.A.Sc. programs can be completed in eight consecutive terms if students complete five courses (15.0 credit hours) per term. Students may choose to reduce their course load to accommodate other commitments such as family or employment responsibilities. Students in good standing may take up to six courses (18.0 credit hours) in a term. Students on academic probation may not register in more than four courses (12.0 credit hours).

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 Markin Hall (M2102).

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. 19)** and www.uleth.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. 30**).

- 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, as indicated above.

- 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. 22**).

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. 25**.

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. 29)** and **Registration (Visiting and Exchange Students, p. 34)**.

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)	Indigenous Studies (INDG)
Agricultural Studies (AGST)	Interdisciplinary Studies (IDST)
Anthropology (ANTH)	Japanese (JPNS)
Applied Studies (APST)	Japanese Studies (JPST)
Archaeology (ARKY)	Kinesiology (KNES)
Art (ART)*	Latin (LATI)
Art History (ARHI)*	Liberal Education (LBED)*
Asian Studies (ASIA)	Library Science (LBSC)

Astronomy (ASTR)	Linguistics (LING)
Biochemistry (BCHM)	Logic (LOGI)
Biology (BIOL)	Mathematics (MATH)
Blackfoot (BKFT)	Modern Languages (MODL)
Canadian Studies (CNST)	Museum Studies (MSTU)*
Chemistry (CHEM)	Music (MUSI)*
Cinema (CINE)*	Music Ensemble Activity (MUSE)*
Computer Science (CPSC)	Music Studio (MUSS)*
Cree (CREE)	Neuroscience (NEUR)
Drama (DRAM)*	New Media (NMED)*
Economics (ECON)	Philosophy (PHIL)
Engineering (ENGG)	Physical Activity (PHAC)
English (ENGL)	Physics (PHYS)
Environmental Science (ENVS)	Political Science (POLI)
Fine Arts (FA)*	Psychology (PSYC)
French (FREN)	Religious Studies (RELS)
Geography (GEOG)	Remote Sensing (RMTS)
Geology (GEOL)	Sociology (SOCL)
German (GERM)	Spanish (SPAN)
Greek (GREK)	Statistics (STAT)
Hebrew (HEBR)	Urban and Regional Studies (UBRE)
Hispanic Studies (HPST)	Women and Gender Studies (WGST)
History (HIST)	Writing (WRIT)
Indigenous Student Success Cohort (ISSC)	

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. 277** 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. 49**. 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 2020/2021** 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 B.A.Sc. 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 B.A.Sc.

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 and Geography (B.A. or 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
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. 281) 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).¹
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**).

¹ 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. 50)** 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. 71**).
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. 49**.)

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 and Geography, 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. 71**).
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. 49.**)

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. 71.**)

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 (labeled 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 labeled 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. 49.**)

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

Anthropology	Indigenous Studies
Art	Kinesiology
Dramatic Arts	Music
Economics	Philosophy
English	Political Science
French	Psychology
French/Spanish	Religious Studies
Geography	Sociology
History	Women and Gender Studies

Eligible Science Majors

Biological Sciences	Kinesiology
Chemistry	Mathematics
Computer Science	Physics
Geography	Psychology

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.uleth.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.uleth.ca/artsci/agricultural-biotechnology) for more information.

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:

Neuroscience 2600 - Brain and Behaviour
 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.

See also:

- Pre-Professional Transfer Programs
- Bachelor of Science - Biological Sciences
- Bachelor of Science - Biochemistry
- Bachelor of Science - Environmental Science

Concentration: Agricultural Business (optional)

Agricultural Biotechnology majors in the B.Sc. degree program may declare a Concentration in Agricultural Business.

Required courses:

Management 2020 - Marketing
 Management 2100 - Introductory Accounting

Three of:

Economics 3030 - Managerial Economics
 Economics 3080/Management 3780 - Principles of Industrial Organization
 Management 3010 - Business Law
¹Management 3050 - Human Resource Management
 Political Science 2210 - Canadian Politics and Government

Notes

¹ Prerequisite: Management 1000

For students who complete all requirements, the Concentration in Agricultural Business will be acknowledged on the official academic transcript.

Agricultural Biotechnology (B.Sc.)

Number of courses required for the major 23

Concentration: Agricultural Business (optional)

Number of courses required for concentration 5

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.uleth.ca/artsci/agricultural-studies) for more information.

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.

See also:

- Post-Diploma Bachelor of Arts - Agricultural Studies
- Bachelor of Science - Agricultural Studies

Concentration: Agricultural Business (optional)

Agricultural Studies majors in the B.A. degree program may declare a Concentration in Agricultural Business.

Required courses:

- Management 2020 - Marketing
- Management 2100 - Introductory Accounting

Three of:

- Economics 3030 - Managerial Economics
- Economics 3080/Management 3780 - Principles of Industrial Organization
- Management 3010 - Business Law
- ¹Management 3050 - Human Resource Management
- Political Science 2210 - Canadian Politics and Government

Notes

¹ Prerequisite: 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.

Agricultural Studies (B.A.)

Number of courses required for the major 20

Concentration: Agricultural Business (optional)

Number of courses required for concentration 5

All students must also complete the Technical Studies Term (five courses).

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.uleth.ca/artsci/agricultural-studies) for more information.

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
- ¹Biology 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 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 4415 - Integrated Watershed Management
- Geography 4725 - Advanced Remote Sensing
- Geography 4740 - Advanced Geographical Information Systems
- Geology 2060 - Physical Geology

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

¹ 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.

See also:

- Post-Diploma Bachelor of Science - Agricultural Studies
- Bachelor of Arts - Agricultural Studies

Concentration: Agricultural Business (optional)

Agricultural Studies majors in the B.Sc. degree program may declare a Concentration in Agricultural Business.

Required courses:

- Management 2020 - Marketing
- Management 2100 - Introductory Accounting

Three of:

- Economics 3030 - Managerial Economics
- Economics 3080/Management 3780 - Principles of Industrial Organization
- Management 3010 - Business Law
- ¹ Management 3050 - Human Resource Management
- Political Science 2210 - Canadian Politics and Government

Notes

¹ Prerequisite: *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.

Agricultural Studies (B.Sc.)

Number of courses required for the major 20

Concentration: Agricultural Business (optional)

Number of courses required for concentration 5

Concentration: Geographical Information Science (optional)

Number of courses required for concentration 5

All students must also complete the Technical Studies Term (five courses).

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.uleth.ca/artsci/anthropology) for more information.

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.

See also:

- Bachelor of Arts/Bachelor of Education - Anthropology/Social Studies Education
- Bachelor of Arts/Bachelor of Management - Anthropology

Anthropology (B.A.)
Number of courses required for the major 13

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.uleth.ca/artsci/math-computer-science) for more information.

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

- 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

- 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 3235 - Quantitative Models for Geographic Analysis
- Geography 4730 - Spatial Statistics

One of:

- Geography 2030 - Geomorphology
- Geography 2300 - Weather and Climate

One of:

- Geography 3740 - Geographical Information Systems
- Geography 3750 - GIS Applications in Human Geography

One additional course (3.0 credit hours) in Geography at the 3000/4000 level

3. Concentration in Psychology

- Psychology 1000 - Basic Concepts of Psychology
- Psychology 2030 - Methods and Statistics
- 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.

See also:

- Bachelor of Science - Mathematics

Applied Statistics (B.Sc.)
Number of courses required for the major and concentration 21

f. Archaeology and Geography (B.A. or 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.uleth.ca/artsci/archaeology) for more information.

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, Geology, or Anthropology at the 3000 or 4000 level

One additional course (3.0 credit hours) in Geography, Geology, or Anthropology at the 2000 level or higher

Notes

See also:

- Bachelor of Arts or Bachelor of Science - Geography

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.

Archaeology and Geography (B.A. or B.Sc.)
Number of courses required for the major 21
Concentration: Geographical Information Science (optional)
Number of courses required for concentration 5

g. 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.

h. 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.uleth.ca/artsci/biochemistry) for more information.

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
¹Engineering 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
¹Biology 3420 - Animal Physiology
¹Biology 3460 - Plant Physiology
 Chemistry 3410 - Analytical Chemistry II
¹Chemistry 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

¹This course has a prerequisite that is not required for the major. See the Course Catalogue (p. 281) 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.

See also:

- Bachelor of Science - Biological Sciences
- Bachelor of Science - Chemistry

Biochemistry (B.Sc.)
Number of courses required for the major 24

i. 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.uleth.ca/artsci/biological-sciences) for more information.

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

¹Six courses (15.0 credit hours) in Biology at the 3000 level, including two from each of the following subfield lists.

Two additional courses (6.0 credit hours) in Biology at the 4000 level.

List 1 - Cellular and Molecular 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

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

Notes

¹ 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.

See also:

- Bachelor of Science/Bachelor of Education - Biological Sciences/Science Education

- Bachelor of Science/Bachelor of Management - Biological Sciences

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**).

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 4210 - Environmental Genomics
- Biology 4700 - Molecular Ecology
- Biology 4740 - Behavioural Ecology

¹ Political Science 3260 - Canadian Public Policy or Philosophy 2236 - Environmental Philosophy or ¹ Economics 3220 - Environmental Economics

² Biology 3990 - Independent Study or Biology 4990 - Independent Study

Notes

¹ Prerequisite required that is not part of the major.

² 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.

Biological Sciences (B.Sc.)

Number of courses required for the major 23

j. 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.uleth.ca/artsci/canadian-studies) for more information.

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 1500 - Intermediate Language I
- French 2000 - Intermediate Language II
- French 2001 - Intermediate Language for Immersion Graduates
- 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
- Indigenous Studies 2800 - Native American Politics
- 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 3500 - Survey of French or French-Canadian Literature (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 3400 - Contemporary Aboriginal Political Economy
 Indigenous Studies 3500 - Indigenous Treaties in an International Context
 Indigenous Studies 3700 - Indigenous Health
 Indigenous Studies 4200 - Law and Indigenous Development in Canada
 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 3500, 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.

See also:

- Bachelor of Arts/Bachelor of Education - Canadian Studies/Social Studies Education
- Bachelor of Arts/Bachelor of Management - Canadian Studies

Canadian Studies (B.A.)

Number of courses required for the major 20

k. **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.uleth.ca/artsci/chemistry-biochemistry) for more information.

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
¹Engineering 2060 - Engineering Mechanics

²Two offerings (6.0 credit hours) chosen from the following list:

Chemistry 4000 - Advanced Chemistry (Series)
 Chemistry 4010 - Advanced Chemistry with Laboratory (Series)

²Four 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

- ¹ Has prerequisites: Engineering 2000 and Mathematics 1565.
- ² 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.

See also:

- Bachelor of Science - Biochemistry
- Bachelor of Science/Bachelor of Education - Chemistry/Science Education
- Bachelor of Science/Bachelor of Management - Chemistry

Chemistry (B.Sc.)
Number of courses required for the major 24

i. 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.uleth.ca/artsci/math-computer-science) for more information.

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

¹ 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

¹ 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.

See also:

- Bachelor of Science - Computer Science and Geographical Information Science
- Bachelor of Science/Bachelor of Management - Computer Science
- Bachelor of Science - Mathematics

Computer Science (B.Sc.)
Number of courses required for the major 18

m. 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.uleth.ca/artsci/gis) for more information.

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 4415 - Integrated Watershed Management
 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
¹ 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

² 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

¹ Prerequisite required: Mathematics 2000.

² Prerequisite required: Statistics 1770.

See also:

- Bachelor of Science - Computer Science
- Bachelor of Science - Geography

Computer Science and Geographical Information Science (B.Sc.)

Number of courses required for the major 22

n. 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.

o. 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.uleth.ca/artsci/economics) for more information.

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

See also:

- Bachelor of Arts/Bachelor of Education - Economics/ Social Studies Education
- Bachelor of Arts/Bachelor of Management - Economics

Economics (B.A.)
Number of courses required for the major 14

p. 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.uleth.ca/artsci/english) for more information.

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 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 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.

See also:

- Bachelor of Arts/Bachelor of Education - English/ English Language Arts Education
- Bachelor of Arts/Bachelor of Management - English

English (B.A.)
Number of courses required for the major 13

q. 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.uleth.ca/artsci/environmental-science) for more information.

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

Two of:

Mathematics 1410 - Elementary Linear Algebra
 Mathematics 1560 - Calculus I or Mathematics 1565 - Accelerated Calculus I
 Statistics 1770 - Introduction to Probability and Statistics

Three of:

Geography 2090 - Biogeography
 Geography 3035 - Fluvial Geomorphology
 Geography 3060 - Glaciology and Glacial Geomorphology
 Geography 3080 - Soils
 Geography 3300 - Microclimatology
 Geography 3400 - Hydrology
 Geography 3720 - Remote Sensing
 Geography 3740 - Geographical Information Systems

¹ Geography 3780 - Field Research in Geography
 Geography 4400 - Advanced Hydrology
 Geography 4415 - Integrated Watershed Management
 Geography 4730 - Spatial Statistics
 Geology 2060 - Physical Geology

Three of (at least two must be offered with a lab):

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

One of:

Biology 3630 - Field Biology
 Geography 3710 - Field Techniques in the Earth Sciences

¹ Geography 3780 - Field Research in Geography
 Geography 3792 - Field Excursion in Physical Geography (Series)

² An approved field course

² One Independent Study or Applied Study at the 3000/4000 level in Environmental Science

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

¹ Prerequisite required: Geography 1200.

² 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.

Students should consider including an introductory Physics course (Physics 1050 - Introduction to Biophysics is recommended) as an Elective in their degree program. Many other courses offered by the Faculty of Arts and Science complement an Environmental Science focus. Consult the Coordinator of Environmental Science for further information.

See also:

- Bachelor of Science - Biological Sciences
- Bachelor of Science - Geography

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.

Environmental Science (B.Sc.)
Number of courses required for the major 25
Concentration: Geographical Information Science (optional)
Number of courses required for concentration 5
All students must also complete the Technical Studies Term (five courses).

r. 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.uleth.ca/artsci/modern-languages) for more information.

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 1500 - Intermediate Language I
 French 2000 - Intermediate Language II

OR

- 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 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 4001 - Advanced Language II

One of:

- French 3500 - Survey of French or French-Canadian Literature (Series)
- French 3600 - Literary Genres (Series)

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 (9.0 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.uleth.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.uleth.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.

See also:

- Bachelor of Arts - French/Spanish
- Bachelor of Arts/Bachelor of Education - Modern Languages Education
- Bachelor of Arts/Bachelor of Management - Modern Languages majors

French (B.A.)
Number of courses required for the major 16

s. 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.uleth.ca/artsci/modern-languages) for more information.

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.uleth.ca/artsci/modern-languages/department-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.uleth.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.

See also:

- Bachelor of Arts - French
- Bachelor of Arts/Bachelor of Education - Modern Languages Education
- Bachelor of Arts/Bachelor of Management - Modern Languages majors

French/Spanish (B.A.)
Number of courses required for the major 16

t. 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.uleth.ca/artsci/general-majors) for more information.

Required courses:

Five courses (15.0 credit hours) in each of three disciplinary streams chosen from the following list:

- English - all courses
- Fine Arts
 - Art - all courses
 - Art History - all courses
 - Cinema - all courses
 - Drama - all courses
 - Museum Studies - all courses
 - Music - all courses
 - Music Studio - all courses
 - New Media - all courses
- One of French, Japanese, or Spanish
- Classical Languages
 - Greek - all courses
 - Hebrew - all courses
 - Latin - all courses
- 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

To determine if a given course in a disciplinary stream has a Humanities designation, see List I: Fine Arts and Humanities Courses (p. 72).

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.

See also:

- Bachelor of Arts/Bachelor of Education - General Major in the Humanities/English Language Arts Education
- Bachelor of Arts/Bachelor of Management - General Major in the Humanities

General Major in the Humanities (B.A.)
Number of courses required for the major 20

u. 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.uleth.ca/artsci/general-majors) for more information.

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 (including courses in Geology)
- 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
- 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. 73).

Some of the Science in Human Affairs courses have prerequisites which may or may not be included in the major.

See also:

- Bachelor of Science/Bachelor of Education - General Major in the Sciences/Science Education
- Bachelor of Science/Bachelor of Management - General Major in the Sciences

General Major in the Sciences (B.Sc.)
Number of courses required for the major 20

v. 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.uleth.ca/artsci/general-majors) for more information.

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 (courses in Geology may not be included)
- 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 (Psychology 1000 may be included)
- 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
- 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. 73).

The Quantitative Methods courses have prerequisites which may or may not be included in the major.

See also:

- Bachelor of Arts/Bachelor of Education - General Major in the Social Sciences/Native Education
- Bachelor of Arts/Bachelor of Education - General Major in the Social Sciences/Physical Education
- Bachelor of Arts/Bachelor of Education - General Major in the Social Sciences/Social Studies Education
- Bachelor of Arts/Bachelor of Management - General Major in the Social Sciences

General Major in the Social Sciences (B.A.)
Number of courses required for the major 20

w. 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.uleth.ca/artsci/geography) for more information.

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 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

Three of (Geographical Techniques):

Archaeology 3300 - Archaeological Field Work (Series)

Geography 3235 - Quantitative Models for Geographic Analysis

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 4730 - Spatial Statistics

¹ One of:

Computer Science 1000 - Introduction to Computer Science

Computer Science 1620 - Fundamentals of Programming I

Two additional courses (6.0 credit hours) in Geography, Geology, or Archaeology at the 3000/4000 level

One course (3.0 credit hours) in Geography, Geology, or Archaeology at the 4000 level

Two non-science courses (6.0 credit hours) at the 1000 level or higher from the offerings in Anthropology, Economics, Indigenous Studies (excluding Blackfoot and Cree), Political Science, and Sociology

One non-science course (3.0 credit hours) at the 2000 level or higher from the offerings in Anthropology, Economics, Indigenous Studies (excluding Blackfoot and Cree), Political Science, and Sociology

Notes

¹ Students choosing the Concentration in Geographical Information Science must complete Computer Science 1620.

Additional 3000/4000-level Geography courses may be selected from the Geographical Techniques list above.

See also:

- Bachelor of Science - Geography
- Bachelor of Arts or Bachelor of Science - Archaeology and Geography
- Bachelor of Arts/Bachelor of Education - Geography/Social Studies Education
- Bachelor of Arts/Bachelor of Management - Geography

Concentration: Geographical Information Science (optional)

Geography majors in the B.A. degree program may declare a Concentration in Geographical Information Science.

Required courses:

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 4415 - Integrated Watershed Management

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 choosing the Concentration in Geographical Information Science must complete Computer Science 1620 as part of the requirements for the Geography major.

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.

Please note that the Concentration in Geographical Information Science is specifically excluded from combined degrees programs.

Geography (B.A.)

Number of courses required for the major 19

Concentration: Geographical Information Science (optional)

Number of courses required for concentration 5

x. 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.uleth.ca/artsci/geography) for more information.

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 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

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 (Geographical Techniques):

Geography 3700 - Mapping in the Cloud
Geography 3720 - Remote Sensing
Geography 3740 - Geographical Information Systems

Four of (Physical Geography):

Geography 2070 - Hazards, Disasters and Global Change

Geography 2090 - Biogeography
Geography 3035 - Fluvial Geomorphology
Geography 3060 - Glaciology and Glacial Geomorphology
Geography 3075 - Environmental Resources Management
Geography 3080 - Soils
Geography 3300 - Microclimatology
Geography 3400 - Hydrology
Geography 3700 - Mapping in the Cloud
Geology 2060 - Physical Geology

Two of:

Biology 1020 - Diversity of Life
Chemistry 1000 - General Chemistry I
Physics 1000 - Introduction to Physics I or
Physics 1050 - Introduction to Biophysics

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

One course (3.0 credit hours) in Geography at the 4000 level with a Science designation

One additional course (3.0 credit hours) at the 2000 level or higher from the offerings in Astronomy, Biochemistry, Biology, Chemistry, Computer Science, Engineering, Mathematics, Statistics, or Physics

Notes

To determine if a given course in Geography has a Science designation, see List III: Science Courses (p. 73).

See also:

- Bachelor of Arts - Geography
- Bachelor of Arts or Bachelor of Science - Archaeology and Geography
- Bachelor of Science/Bachelor of Education - Geography/Science Education
- Bachelor of Science/Bachelor of Management - Geography

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.

Geography (B.Sc.)

Number of courses required for the major 23

Concentration: Geographical Information Science (optional)

Number of courses required for concentration 5

y. 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.uleth.ca/artsci/history) for more information.

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

Five courses (15.0 credit hours) in History at the 3000/4000 level¹

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

¹ *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.

See also:

- Bachelor of Arts/Bachelor of Education - History/Social Studies Education
- Bachelor of Arts/Bachelor of Management - History

History (B.A.)

Number of courses required for the major 14

z. 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.uleth.ca/artsci/indigenous-studies) for more information.

Required courses:

Indigenous Studies 1000 - Introduction to Indigenous Studies

One course (3.0 credit hours) in Blackfoot or Cree

One of (Language and Linguistics):

Indigenous Studies 1100/Linguistics 1100 - Language and Culture in Indigenous America

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

Indigenous Studies 2600 - Native American Literature

One of (Culture and History)

Indigenous Studies 2500 - Indigenous Histories of Canada

Indigenous Studies 2550 - Indigenous Histories of the United States

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 Issues)

- Indigenous Studies 2400 - Comparative Traditional Indigenous Economies
- 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

Notes

See also:

- Bachelor of Arts/Bachelor of Education - Indigenous Studies/Indigenous Education
- Bachelor of Arts/Bachelor of Management - Indigenous Studies

Indigenous Studies (B.A.)
Number of courses required for the major 13

aa. 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.uleth.ca/artsci/kinesiology) for more information.

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 and List II: Social Science Courses (p. 73).

No more than two Independent Study courses (Kinesiology 3990 or Kinesiology 4990; 6.0 credit hours) may be counted towards the major.

See also:

- Bachelor of Science - Kinesiology
- Bachelor of Arts/Bachelor of Education - Kinesiology/Physical Education
- Bachelor of Arts/Bachelor of Management - Kinesiology

Kinesiology (B.A.)
Number of courses required for the major 19

ab. 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.uleth.ca/artsci/kinesiology) for more information.

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
- Neuroscience 2600 - Brain and Behaviour
- Physics 1050 - Introduction to Biophysics

One of:

- Chemistry 1000 - General Chemistry I
- Chemistry 1110 - Chemistry for Life Sciences I

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. 73).

No more than two Independent Study courses (Kinesiology 3990 or 4990; 6.0 credit hours) may be counted towards the major.

See also:

- Bachelor of Arts - Kinesiology

<p>Kinesiology (B.Sc.)</p> <p>Number of courses required for the major 24</p>

ac. 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.uleth.ca/artsci/math-computer-science) for more information.

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 pairs:

- Mathematics 2570 - Calculus III
- Mathematics 2580 - Calculus IV

OR

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

¹ 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, excluding Mathematics 4980 and Statistics 4980 (Applied Studies), and Mathematics 4990 and Statistics 4990 (Independent Study)

Notes

¹ 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.

See also:

- Bachelor of Science/Bachelor of Education - Mathematics/Mathematics Education
- Bachelor of Science/Bachelor of Management - Mathematics
- Bachelor of Science - Computer Science

<p>Mathematics (B.Sc.)</p> <p>Number of courses required for the major 18</p>

ad. 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.

ae. 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.uleth.ca/artsci/neuroscience) for more information.

Required courses:

- Biology 1010 - Cellular Basis of Life
- Biology 1020 - Diversity of Life
- Biology 2000 - Principles of Genetics
- Neuroscience 2600 - Brain and Behaviour
- Neuroscience 3600 - Fundamental Neurobiology
- Psychology 2330 - Learning and Cognition
- Psychology 2700 - Behaviour and Evolution

Two of:

- 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
- ¹Neuroscience 4995 - Undergraduate Thesis (6.0 credit hours)

One of:

- Philosophy 2220 - Philosophy of Mind
- ²Philosophy 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
- Psychology 2030 - Methods and Statistics
- 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. 73**).

One of the following groups:

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. 73**)

Note: Students who choose this grouping may not choose Biochemistry 2000 as part of the "Two of" list above.

OR

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

¹ If Neuroscience 4995 is chosen, the requirement for three additional courses at the 3000/4000 level in Neuroscience or Psychology with a Science designation is reduced to two additional such courses.

² Prerequisite required: One of Philosophy 1000 or a 2000-level course (3.0 credit hours) in Philosophy.

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

See also:

- Bachelor of Science - Psychology

Neuroscience (B.Sc.)
Number of courses required for the major 22

af. 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.uleth.ca/artsci/philosophy) for more information.

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

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.

See also:

- Bachelor of Arts/Bachelor of Management - Philosophy

Concentration: Legal Reasoning (optional)

Philosophy majors in the B.A. and B.A.Sc. degree programs may declare a Concentration in Legal Reasoning.

Required courses:

- Philosophy 3401 - Social and Political Philosophy
- Philosophy 3404 - Philosophy of Law

Two of:

- Philosophy 2001 - Introduction to Ethics
- Philosophy 2236 - Environmental Philosophy
- Philosophy 3402 - Biomedical Ethics
- Philosophy 3410 - Advanced Ethics
- Philosophy 3411 - Game Theory in Philosophy
- Philosophy 3413 - Feminist Philosophy
- Philosophy 3450 - Philosophy of War

One of:

- ¹Indigenous Studies 2100 - Indigenous Peoples and Law
- Management 3010 - Business Law

- ²Political Science 3241 - Canadian Constitutional Law: Federalism and First Nations

- ³Political Science 3245/Women and Gender Studies 3245 - The Charter, Gender, and Social Change

Notes

¹Prerequisite Required: Indigenous Studies 1000.

²Prerequisite Required: Political Science 2210.

³Prerequisite Required: One of Political Science 1000, Political Science 2210, or Women and Gender Studies 1000.

Students may not double count courses required for the Concentration in Legal Reasoning in fulfilling requirements for the Major in Philosophy.

For students who complete all requirements, the Concentration in Legal Reasoning will be acknowledged on the official transcript.

Philosophy (B.A.)

Number of courses required for the major 13

Concentration: Legal Reasoning (optional)

Number of courses required for concentration 5

ag. 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.uleth.ca/artsci/physics-astronomy) for more information.

Required courses:

- Chemistry 1000 - General Chemistry I
- Computer Science 1620 - Fundamentals of Programming I
- Mathematics 1410 - Elementary Linear Algebra
- Mathematics 2565 - Accelerated Calculus II
- Mathematics 2570 - Calculus III
- Mathematics 2580 - Calculus IV
- 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:

- Biology 1010 - Cellular Basis of Life
- Biology 1020 - Diversity of Life

One of:

- Physics 1000 - Introduction to Physics I
- Physics 1050 - Introduction to Biophysics
- ¹ Engineering 2060 - Engineering Mechanics

One of:

- Physics 4150 - Quantum Mechanics III
- Physics 4200 - Advanced Mechanics

² Two of:

- 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

¹ Engineering 2000 and Mathematics 1565 are prerequisites for Engineering 2060.

² 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.

See also:

- Bachelor of Science - Remote Sensing
- Bachelor of Science/Bachelor of Education - Physics/Science Education
- Bachelor of Science/Bachelor of Management - Physics

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:

¹ 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

¹ 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.

Physics (B.Sc.)

Number of courses required for the major 26

Concentration: Theoretical Physics (optional)

Number of courses required for concentration 5

ah. 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.uleth.ca/artsci/political-science) for more information.

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
- ¹ 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

¹ 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).

See also:

- Bachelor of Arts/Bachelor of Education - Political Science/Social Studies Education
- Bachelor of Arts/Bachelor of Management - Political Science

Political Science (B.A.)
Number of courses required for the major 13

ai. Psychology (B.A. or 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.uleth.ca/artsci/psychology) for more information.

Required courses:

- Psychology 1000 - Basic Concepts of Psychology
- Psychology 2030 - Methods and Statistics
- Four courses (12.0 credit hours) in Psychology or Neuroscience at the 2000 level
- Six courses (18.0 credit hours) in Psychology or Neuroscience at the 3000/4000 level
- One course (3.0 credit hours) in Psychology at the 4000 level

Notes

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).

See also:

- Bachelor of Science - Neuroscience
- Bachelor of Arts/Bachelor of Management - Psychology
- Bachelor of Science/Bachelor of Management - Psychology

Psychology (B.A. or B.Sc.)
Number of courses required for the major 13

aj. 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.uleth.ca/artsci/religious-studies) for more information.

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)

¹ **One of:**

- Anthropology 2550 - Anthropology of Religion
- Anthropology 3500 - Ritual, Practice, and Performance
- Archaeology 3171 - Ancient Israel

- Greek 1200 - Elementary Biblical Greek I
- Greek 1300 - Elementary Biblical Greek II
- 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 3510 - Political Thought Before 1500
- Political Science 3525 - Politics and Religion
- 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

² 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

¹ Most courses in this list have prerequisites that are not part of the major.

² 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.

See also:

- Bachelor of Arts/Bachelor of Management - Religious Studies

Religious Studies (B.A.)
Number of courses required for the major 14

ak. 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.uleth.ca/artsci/remote-sensing) for more information.

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
- Mathematics 2570 - Calculus III
- Mathematics 2580 - Calculus IV
- 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:

- 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

¹ Computer Science 3620 - Data Structures and Algorithms

² Computer Science 3710 - Computer Graphics

³ Statistics 2780 - Statistical Inference

Notes

¹ Prerequisites required: Computer Science 1820 and Computer Science 2620.

² Prerequisite required: Computer Science 2620.

³ Prerequisite required: Statistics 1770.

See also:

- Bachelor of Science - Geography
- Bachelor of Science - Physics

Remote Sensing (B.Sc.)
Number of courses required for the major 21

al. 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.uleth.ca/artsci/sociology) for more information.

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

Notes

See also:

- Bachelor of Arts/Bachelor of Education - Sociology/ Social Studies Education
- Bachelor of Arts/Bachelor of Management - Sociology

Sociology (B.A.)
Number of courses required for the major 16

am. 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.uleth.ca/artsci/urban-regional-studies) for more information.

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):

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.

Anthropology

- Anthropology 2210 - Cultures of the World (Series)
- Anthropology 3280 - Urban Anthropology

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

Geography

Geography 1200 - Introduction to Human Geography
 Geography 2210 - Spatial Organization of Economic Activity
 Geography 3075 - Environmental Resources Management
 Geography 3225/Management 3660 - Industrial Location and Globalization of Enterprise
 Geography 3230 - Urban Social Geography
 Geography 3235 - Quantitative Models for Geographic Analysis
 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)

History

History 2001 - Main Themes in Ancient History

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)

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

¹ 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.

See also:

- Bachelor of Arts/Bachelor of Management - Urban and Regional Studies

Urban and Regional Studies (B.A.)
 Number of courses required for the major 21

an. 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.uleth.ca/artsci/women-gender-studies) for more information.

Required courses:

Women and Gender Studies 1000 - Knowing Bodies: An Introduction to Women and Gender Studies
 Women and Gender Studies 2300 - Theorizing Women's Lives: Feminist 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.

See also:

- Bachelor of Arts/Bachelor of Management - Women and Gender Studies

Women and Gender Studies (B.A.)
 Number of courses required for the major 13

ao. 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 (BASC.) (p. 83)**.

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 **p. 78**):

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.

ap. 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:

a. 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.

b. An Independent Study at the 3000 or 4000 level.**c. 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.

d. 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. 267)** for course requirements and regulations. For students completing the B.A./B.Ed. or B.Sc./B.Ed., please refer to **Faculty of Education (p. 132)** 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" on page 84 along with the requirements for the given major or in "Post-Diploma Degree Programs" on page 114 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 or the degree B.Mgt. from the Dhillon School of Business. Neither degree is granted until the entire combined degrees program is completed. See **Combined Degrees, p. 201** 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. 71**).
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 **p. 83-84** 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 **p. 99-101** for more information on the General Majors.

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.uleth.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.uleth.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

Required stream (Choose one of the following streams; eight courses):**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

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. 71**).

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:

Management 2020 - Marketing
Management 2100 - Introductory Accounting

Three of:

Economics 3030 - Managerial Economics
Economics 3080/Management 3780 - Principles of Industrial Organization
Management 3010 - Business Law

¹ Management 3050 - Human Resource Management

Political Science 2210 - Canadian Politics and Government

Notes

¹ Prerequisite: 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.

Post-Diploma B.A. in Agricultural Studies

Number of courses required for program 20

Concentration: Agricultural Business (optional)

Number of courses required for concentration 5

b. 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.uleth.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

Required stream (Choose one of the following streams; eight courses):**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
¹Biology 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

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 4415 - Integrated Watershed Management
 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

¹Corequisite 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 Lists, p. 72**).

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:

Management 2020 - Marketing
 Management 2100 - Introductory Accounting

Three of:

Economics 3030 - Managerial Economics
 Economics 3080/Management 3780 - Principles of Industrial Organization
 Management 3010 - Business Law
¹Management 3050 - Human Resource Management
 Political Science 2210 - Canadian Politics and Government

Notes

¹Prerequisites: 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.

Post-Diploma B.Sc. in Agricultural Studies

Number of courses required for program 20

Concentration: Agricultural Business (optional)

Number of courses required for concentration 5

Concentration: Geographical Information Science (optional)

Number of courses required for concentration 5

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.uleth.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

¹ 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

¹ 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. 71**).

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.

Post-Diploma B.Sc. in Computer Science

Number of courses required for program 20

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.uleth.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 or Geology 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 Lists, p. 72**).

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 2735, Geography 3080, and Geology 2060.

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 4415 - Integrated Watershed Management
 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.

Post-Diploma B.Sc. in Environmental Science

Number of courses required for program 20

Concentration: Geographical Information Science (optional)

Number of courses required for concentration 5

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.uleth.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 3235 - Quantitative Models for Geographic Analysis
 Geography 3700 - Mapping in the Cloud
 Geography 3710 - Field Techniques in the Earth Sciences
 Geography 3750 - GIS Applications in Human Geography

One of:

- Geography 4400 - Advanced Hydrology
- Geography 4415 - Integrated Watershed Management
- 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

One additional course (3.0 credit hours) in Geography, Geology or Archaeology at the 3000/4000 level, with a Science designation

One additional course (3.0 credit hours) in Geography, Geology 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. 71**).

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.

Post-Diploma B.Sc. in Geography, with a Concentration in Geographical Information Science

Number of courses required for program 20

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.uleth.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

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. 79**), will be admitted to any Arts and Science undergraduate program for which they have the required prerequisite courses (see **Admission, p. 78**). 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. 26**). 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. 20)** for general admission requirements.

Refer to the Program Planning Guide (available at www.uleth.ca/ross/ppgs) for current information regarding course options and the Faculty of Health Sciences' website (www.uleth.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 or the University of Saskatchewan Bachelor of 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)**.*

b. Engineering (University of Saskatchewan)

12 courses (34.5 credit hours) at the University of Lethbridge

University of transfer: Saskatchewan

Required courses:

Chemistry 1000 - General Chemistry I
 Computer Science 1620 - Fundamentals of Programming I
 Engineering 1100 - The Engineering Profession I (1.5 credit hours)
 Engineering 2000 - Engineering Statics

Engineering 2060 - Engineering Mechanics
 Engineering 2300 - Engineering Design
 Mathematics 1410 - Elementary Linear Algebra
 Mathematics 1565 - Accelerated Calculus I
 Mathematics 2565 - Accelerated Calculus II
 Physics 2000 - Introduction to Physics II

One of:

Chemistry 2000 - General Chemistry II
 Geology 2060 - Physical Geology

One of:

Archaeology 1000 - Introduction to Archaeology
 Economics 1012 - Introduction to Macroeconomics
 Geography 1200 - Introduction to Human Geography
 Indigenous Studies 1000 - Introduction to Indigenous Studies
 Logic 1000 - Critical Thinking
 Philosophy 1000 - Introduction to Philosophy
 Philosophy 2001 - Introduction to Ethics
 Psychology 1000 - Basic Concepts of Psychology
 Sociology 1000 - Introduction to Sociology
 Women and Gender Studies 1000 - Knowing Bodies: An Introduction to Women and Gender Studies

A minimum GPA of 2.50 is required for admission into the second year of Engineering at the University of Saskatchewan.

*For detailed information about the Engineering program at the University of Saskatchewan, and planning the University of Lethbridge program in order to meet those requirements, students are directed to the Program Planning Enclosure for **Engineering (Saskatchewan)**.*

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 **p. 141**

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. 82** and **Majors, p. 84** 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. 107** and **Majors, p. 109** 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. 107** and **Majors, p. 109** 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. 108** and **Majors, p. 109** 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. 107** and **Majors, p. 109** 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, p. 197** 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. 82** and **Majors, p. 84** 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**.*

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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.

I. 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.

2. 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. A person who has been convicted of an indictable offence in Canada or an equivalent conviction in a jurisdiction outside Canada; or
- b. 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.

1. 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. 201**.

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. 126**).

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. Pre-B.Ed. After an Approved Degree

Students who intend to pursue a B.Ed. After an Approved Degree, but who do not meet requirements for direct admission to the B.Ed. program, may apply to the Pre-B.Ed. (After Degree) program in the Faculty of Education. A limited number of students may be admitted to this program in the fall or spring term and may then register for courses needed to meet minimum requirements for the B.Ed. After an Approved Degree program.

Students are not guaranteed admission to the B.Ed. After Degree program upon completion of the admission requirements but must compete with the other applicants.

3. 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. 136)**.

3. 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 Assistant 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.

4. 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. 20)** 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, **p. 203**
- Bachelor of Science/Bachelor of Education, **p. 203**
- Bachelor of Fine Arts - Art/Bachelor of Education, **p. 223**
- Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education, **p. 225**
- Bachelor of Fine Arts - New Media/Bachelor of Education, **p. 228**
- Bachelor of Music/Bachelor of Education, **p. 230**
- Bachelor of Management/Bachelor of Education, **p. 233**
- Post-Diploma Bachelor of Fine Arts - Art/Bachelor of Education, **p. 259**
- Post-Diploma Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education, **p. 259**
- Post-Diploma Bachelor of Music/Bachelor of Education, **p. 259**
- Post-Diploma Bachelor of Management/Bachelor of Education, **p. 263**

b. After Degree Program

Applicants to the Bachelor of Education (B.Ed.) After Degree program must meet the following minimum requirements for admission. Applicants who do not meet these requirements will be considered for admission to the Pre-Bachelor of Education After an Approved Degree program (see **Pre-Bachelor of Education After an Approved Degree, p. 127**).

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. 201**).

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. 130**).
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.

5. ADMISSION TO OTHER EDUCATION PROGRAMS

Applicants to Faculty of Education programs are advised to refer to **Admission, p. 19** for general admission requirements and policies.

a. Pre-Bachelor of Education After an Approved Degree

Applicants must meet the following minimum qualifications for admission to the Pre-B.Ed. After an Approved Degree program:

1. Completion of an approved undergraduate degree, including at least four courses in a declared single discipline major, or at least eight courses in a declared general major. Students must select a major from among those available to students in the B. Ed. After an Approved Degree program (see **Teaching Majors, p. 128**). 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 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 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.

b. 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.

6. 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. 205**.

There are other majors available within the Combined Degrees programs. Please consult the appropriate sections in **Combined Degrees, p. 201** as indicated below for a full description and related sample sequencing plans.

Art Education

- B.F.A. - Art/B.Ed., **p. 223**
- Post-Diploma B.F.A. - Art/B.Ed.*, **p. 259**

Career and Technology Studies: Business Focus

- B.Mgt./B.Ed., **p. 233**
- Post-Diploma B.Mgt./B.Ed.*, **p. 263**

Career and Technology Studies: New Media Focus

- B.F.A. - New Media/B.Ed., **p. 228**

Drama Education

- B.F.A. - Dramatic Arts/B.Ed., **p. 225**
- Post-Diploma B.F.A. - Dramatic Arts/B.Ed.*, **p. 259**

Music Education

- B.Mus./B.Ed., **p. 230**
- Post-Diploma B.Mus./B.Ed.*, **p. 259**

*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. 132)** for information on Education minor requirements. Indigenous Education majors should refer to **“Minors for Indigenous Education Majors” on page 128** 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. 132)**, 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. 136)** 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 - eSeminar 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. 201**). 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. 132)** for information on Education minor requirements. Indigenous Education majors should refer to **“Minors for Indigenous Education Majors” on page 128** 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. 132)**, 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. 136)** 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.uleth.ca/ross/ppgs.

7. 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 of 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 1-12 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 (**Standards of Professional Conduct, p. 129**). 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, Faculty of Education.

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. 49**). 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.

8. 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 19 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; 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. 129**).

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 2031 - Foundation Studio (Drawing and Image)
 Art 2032 - Foundation Studio (Object and Space)
 Art History 1002 - World Art Since 1400
 Two Art Studio Electives (6.0 credit hours)

b. Blackfoot Language Education

Where applicable, Blackfoot Language Education minors complete their Education 3700 series course with Modern Languages Education minors.

Required courses:

Linguistics 2300 - Introduction to Linguistics I: Phonetics and Phonology

Four of:

Blackfoot 1000 - Introductory Spoken Blackfoot
 Blackfoot 2000 - Spoken Blackfoot II
 Blackfoot 2210 - Structure of the Blackfoot Language
 Blackfoot 3210 - Blackfoot Morphology and Syntax
 Blackfoot 4210 - Seminar 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
- **Biology 2000 - Principles of Genetics
- **Biology 2200 - Principles of Ecology
- **Biology 3400 - Principles of Microbiology
- *Biology 3420 - Animal Physiology
- **Biology 3460 - Plant Physiology
- **Biology 3520 - Invertebrate Zoology
- **Biology 3560 - Integrative Plant Biology
- **Biology 3700 - Ecosystem Ecology
- **Biology 4200 - Techniques in Molecular Biology
- **Biology 4800 - Biology of Parasitism
- Economics 1010 - Introduction to Microeconomics
- **Economics 3010 - Intermediate Microeconomic Theory
- **Economics 3210 - Natural Resource Economics
- **Economics 3220 - Environmental Economics
- **Economics 3300 - Agricultural Policy I
- *Economics 4300 - Agricultural Policy II
- Environmental Science 2000 - Fundamentals of Environmental Science
- Geography 1000 - Introduction to Physical Geography
- **Geography 2030 - Geomorphology
- **Geography 2300 - Weather and Climate
- Geography 2535 - Introduction to Planning
- **Geography 2735 - Introduction to Geographical Information Science
- **Geography 3035 - Fluvial Geomorphology
- **Geography 3080 - Soils
- *Geography 3210 - Food Systems Analysis
- *Geography 3400 - Hydrology
- *Geography 3720 - Remote Sensing
- *Geography 3740 - Geographical Information Systems
- **Geography 4065 - Irrigation Science
- *Management 2020 - Marketing
- **Management 3210 - Consumer Behaviour
- **Management 3862 - E-commerce Management

*Has prerequisite

**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:

Management 1000 - Introduction to Management
 Management 2100 - Introductory Accounting
 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:**

- Art 2031 - Foundation Studio (Drawing and Image)
- Art 2032 - Foundation Studio (Object and Space)
- **Art 3006 - Print Media With a Press
- **Art 3007 - Advanced Print Media
- **Art 3026 - Photo-Arts I
- **Art 3027 - Photo-Arts II
- **Art 3028 - Photo-Arts III
- Art History 1002 - World Art Since 1400
- Computer Science 1000 - Introduction to Computer Science
- *Computer Science 3710 - Computer Graphics
- Drama 1000 - Introduction to Dramatic Arts
- **Drama 2320 - Voice I
- Drama 2350 - Speech Communication
- English 1900 - Introduction to Language and Literature
- **English 2800 - Rhetoric
- **English 3800 - Creative Writing
- ¹Fine Arts 3850 - Topics in Fine Arts
- ¹Fine Arts 4850 - Topics in Fine Arts
- *Management 2030 - Introduction to Organizational Behaviour
- Management 3080 - Managerial Skill Development
- **Management 3862 - E-commerce Management
- Music 2500 - Introduction to Music Technology

¹ If the topic is applicable to the minor

*Has prerequisite

**Has prerequisite which may be used to complete the requirements of the minor

4. Career and Technology Studies (CTS): Community Health Focus

The CTS: Community Health Focus minor supports the Alberta Education CTS *Community Health* strand.

Required courses:**Five of:**

- Anthropology 1000 - The Anthropological Perspective
- **Anthropology 2200 - The Ethnographic Imagination
- **Anthropology 2510 - Language, Culture, and Communication
- **Anthropology 2600 - Anthropology of Gender
- **Anthropology 3200 - Power and Discourse
- **Anthropology 3310 - Race and Ethnicity
- **Anthropology 3520 - Medical Anthropology
- **Anthropology 3900 - Social and Cultural Organization (Series)
- Biochemistry 2300 - Elements of Human Nutrition
- **Biology 2003/Health Sciences 2003 - Epidemiology
- Chemistry 1110 - Chemistry for Life Sciences I
- **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
- *Kinesiology 3610 - Exercise Physiology
- *Kinesiology 3630 - Growth, Development and Aging
- **Neuroscience 2600 - Brain and Behaviour
- **Neuroscience 3610 - Human Neuropsychology
- Psychology 1000 - Basic Concepts of Psychology
- **Psychology 2110 - Introduction to Child Development
- **Psychology 2330 - Learning and Cognition
- **Psychology 2800 - Social Psychology
- **Psychology 3120 - Psychology of Aging
- **Psychology 3500 - Abnormal Psychology
- Sociology 1000 - Introduction to Sociology
- **Sociology 2010 - Canadian Society
- **Sociology 2410 - Sociology of Gender
- Sociology 3020 - Social Problems
- **Sociology 3310 - Sociology of Families
- **Sociology 3340 - Medical Sociology

*Has prerequisite

**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
- *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 3655 - Operating Systems
- **Computer Science 3660 - Introduction to Database Systems
- **Computer Science 3710 - Computer Graphics
- *Computer Science 3740 - Programming Languages
- **Computer Science 3750 - Artificial Intelligence
- **Computer Science 3780 - Data Communications and Networking
- **Computer Science 4600 - Compiler Design
- **Computer Science 4660 - Database Management Systems
- **Management 3862 - E-commerce Management

*Has prerequisite

**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
- **Biology 2000 - Principles of Genetics
- *Biology 2200 - Principles of Ecology
- **Biology 3460 - Plant Physiology
- **Biology 3520 - Invertebrate Zoology
- **Biology 3560 - Integrative Plant Biology
- **Biology 3700 - Ecosystem Ecology
- Chemistry 1000 - General Chemistry I
- *Chemistry 2000 - General Chemistry II
- Chemistry 1110 - Chemistry for Life Sciences I
- Computer Science 1000 - Introduction to Computer Science
- *Economics 3210 - Natural Resource Economics
- *Economics 3220 - Environmental Economics
- *Economics 3300 - Agricultural Policy I
- Environmental Science 2000 - Fundamentals of Environmental Science
- Geography 1000 - Introduction to Physical Geography
- Geography 2000 - World Regional Geography
- **Geography 2030 - Geomorphology
- **Geography 2070 - Hazards, Disasters and Global Change
- **Geography 2300 - Weather and Climate
- Geography 2535 - Introduction to Planning
- Geography 2600 - Canada
- **Geography 2700 - Geographical Data and Analysis
- **Geography 2735 - Introduction to Geographical Information Science
- **Geography 3080 - Soils
- **Geography 3210 - Food Systems Analysis
- **Geography 3400 - Hydrology
- **Geography 3720 - Remote Sensing
- **Geography 3740 - Geographical Information Systems
- **Geography 4065 - Irrigation Science
- **Geology 2060 - Physical Geology
- *Management 2020 - Marketing
- Management 2030 - Introduction to Organizational Behaviour
- **Management 3210 - Consumer Behaviour
- **Management 3862 - E-commerce Management

*Has prerequisite

**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:

*Drama 2310 - Acting I

Drama 2320 - Voice I

Drama 2340 - Movement I

*Drama 2510 - Theatre for Young Audiences I

*Drama 2740 - Devised Theatre I

Two Drama electives

**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. Mathematics Education

Required courses:

Mathematics 1410 - Elementary Linear Algebra

Mathematics 2000 - Mathematical Concepts

Three courses from Algebra, Analysis, Calculus,

Computer Science, Geometry or Statistics

g. 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:

French 3450 - Phonetics and Diction

Linguistics 2300 - Introduction to Linguistics I:

Phonetics and Phonology

Three additional French courses

Recommended courses:

French 2250 - French Immersion

French 3200 - Culture and Civilization II (Series)
(French-Canadian)

French 3600 - Literary Genres (Series)

Modern Languages Education: Spanish

Required courses:

Linguistics 2300 - Introduction to Linguistics I:

Phonetics and Phonology

Four Spanish courses

Recommended courses:

Spanish 2020 - Intermediate Language II

Spanish 2250 - Spanish Immersion

Spanish 3600 - Culture and Civilization

h. Music Education

History

Music 1000 - Introduction to Music

Theory

Music 2160 - Theory I

*Music 2161 - Musicianship Skills I

Music 2260 - Theory II

*Music 2261 - Musicianship Skills II

*1.5 credit hours.

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)

i. Native Education

Required courses:

Indigenous Studies 1000 - Introduction to Indigenous Studies

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

j. 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)

k. 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

l. 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.

m. 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.

9. 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:

Art 3060 - Media Arts (Introduction to Digital Studio)

Art 3061 - Media Arts (Video Sketchbook)

Computer Science 1000 - Introduction to Computer Science

*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 3061 - Information Systems and Management

Management 3862 - E-commerce Management

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

*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.

10. 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 Assistant 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

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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 - Multidisciplinary, the Bachelor of Fine Arts - Native American Art, 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 - Multidisciplinary, Bachelor of Fine Arts - Native American Art, 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).

2. ADVISING AND INFORMATION

Students must contact an academic advisor (W660; tel. 403-329-2691; email: 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. 19)** and www.uleth.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**.

b. Bachelor of Fine Arts - Art

1. Art History/Museum Studies Major

The B.F.A. - Art degree program with a major in Art History/Museum Studies is available to applicants who meet the general admission requirements outlined in **Admission**.

2. Art Studio Major

In addition to the general admission requirements outlined in **Admission**, all applicants to the B.F.A. - Art degree program with an Art Studio major must submit an art portfolio for consideration by the **Application and Document Deadlines** (see www.uleth.ca/ross/admissions/undergrad/deadlines).

Enrolment in this program is limited and admission is competitive; selections are made based on the portfolio. Details are given below.

Art Portfolio Content

Compiling a portfolio of artwork is an important stage in the experience of an art student. The portfolio informs the Art Department about prospective students' creative interests, experience, skills, and direction. When developing a portfolio, applicants should choose their best work and present it as professionally as possible.

Personal Statement

The personal statement (or *Letter of Intent*) provides insight to the Art Department about the background and experience, inspirations and goals of students applying to study in Art programs. In a typed statement of approximately 500 words, applicants should explain their reasons for wishing to enter studies in Art. Applicants should include references to their artistic interests, specific influences, and any educational background in the arts, and include this statement with their portfolio.

Examples of Artwork

The portfolio should consist of 10-20 images of artworks by the applicant that provide a good representation of their range of art interests and skills. Works may be created inside or outside of a formal class environment.

Applicants may submit more than one image of a single artwork if the work is large or complex.

Applicants are encouraged to submit documentation of work in a range of materials and media:

- Drawings, prints, paintings, or murals
- Photography (analogue or digital), collage, or other mixed media works
- Video, performance, animation, or audio-based work
- Sculpture, fibre, or ceramic work
- Website, graphic novel, and zine productions
- Sketchbook and journal examples

Image/Media List

The portfolio must include a numbered list of all works submitted, with titles, materials, dimensions, dates, and a small description of the work along with the applicant's name and contact information.

Portfolio Review Dates

Portfolio submissions will be reviewed according to the following schedule:

- December 15 - first round
- February 15 - second round
- March 15 - third round
- June 15 - final deadline for submission and final evaluation

Portfolio Submission

Portfolios are submitted online at: ulethbridge.slideroom.com

For more information, visit the Faculty of Fine Arts website at www.uleth.ca/finearts/admissions, contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email finearts.admissions@uleth.ca.

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. 19)**.

d. 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**.

e. Bachelor of Fine Arts - Native American Art**1. Art History/Museum Studies Major**

The B.F.A. - Native American Art degree program with a major in Art History/Museum Studies is available to applicants who meet the general admission requirements outlined in **Admission**.

2. Art Studio Major

In addition to the general admission requirements outlined in **Admission**, all applicants to the B.F.A. - Native American Art degree program with an Art Studio major must submit an art portfolio for consideration by the appropriate **Application and Document Deadlines** (see www.uleth.ca/ross/admissions/undergrad/deadlines). Please refer to the portfolio requirements as indicated in **Bachelor of Fine Arts - Art (p. 140)**.

f. Bachelor of Fine Arts - New Media

In addition to the general admission requirements outlined in **Admission (p. 19)**, all applicants to the B.F.A. - New Media degree program must submit a portfolio (or essay alternative) and Summary Questionnaire for consideration by the appropriate **Application and Document Deadlines** (see www.uleth.ca/ross/admissions/undergrad/deadlines).

Enrolment in this program is limited and admission is competitive based on the portfolio (or essay alternative) and Summary Questionnaire. Details are given below.

New Media Portfolio Content**Questionnaire**

The questionnaire provides insight to the New Media Department about an applicant's background, experience, inspirations and goals. For each of the following questions, an applicant should provide an approximately 200-word statement per question:

- Interest: What areas of interest does the applicant have in New Media (examples: graphic design, web design, and development, interaction design, 3D modeling, animation, gaming, narrative screen writing, cinema production and studies, historical and contemporary new media theory).
- Background: What is the applicant's background? What fine arts classes and technology experience do they have?
- Goals: What are the applicant's goals when they complete a degree in this field?

10-20 Examples of Work

An applicant must submit examples of 10 to 20 current pieces of their work. The applicant is encouraged to submit works that display variety and the breadth of their experiences. This may be from any of the following areas: art, drama, music and new media. Works may be created inside or outside a formal class setting.

Examples of the type of works an applicant can submit, but are not limited to, include:

- Graphic design, digital drawing, or illustration
- Video, animation, or audio-based work
- Interaction design or website design
- Graphic novel and zine productions
- Digital fabrications (like 3D printing)
- Photography (analogue or digital)
- Drawings, prints, paintings, or murals
- Selections from sketchbooks and journals
- Sculpture, fibre, or ceramic work
- Drama performance/construction/participation documentation (reviews, photos, programs)
- Music production - a piece of music from any genre produced and recorded by the applicant
- Other creative works

Note: Applicants may submit more than one image of a single work as a PDF if the work is large or complex.

The applicant should include the following information with their work:

- Title
- Year of work
- Technology or equipment used
- Brief description of the work - maximum 50 words (optional)
- Names of any collaborators (if relevant)

750-Word Essay (optional)

If the applicant does not have access to the necessary technology, they can submit an essay instead of providing examples of work (a questionnaire is also required as part of the application).

The applicant will research the term New Media, its many media components, and then write a 750 word essay explaining why they are interested in it, and what it is about their particular background skills and interests that makes the B.F.A. - New Media degree interesting to them. In one of the paragraphs, the applicant shall address the reasons why they decided to submit an essay rather than examples of their work.

Portfolio Review Dates

Portfolio submissions will be reviewed according to the following schedule:

December 15 - first round

February 15 - second round

March 15 - third round

June 15 - final deadline for submission and final evaluation

Portfolio Submission

Portfolios (or essay alternative) are submitted online at: ulethbridge.slideroom.com

For more information, visit the Faculty of Fine Arts website at www.uleth.ca/finearts/admissions, contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email finearts.admissions@uleth.ca.

g. Bachelor of Music**1. Music Major**

In addition to the general admission requirements outlined in **Admission (p. 19)**, all applicants to the B.Mus. degree program must successfully audition for Music Studio before the appropriate

Application and Document Deadlines (see www.uleth.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 SlideRoom (ulethbridge.slideroom.com) by the **Application and Document Deadlines** (see www.uleth.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.uleth.ca/fine-arts/student-support/admissions/music-additional-requirements

Audition application:

www.uleth.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:

1. Successfully complete an instrumental or vocal audition at the entry level for Music Studio 2148 - Studio I - Instrument; and
2. 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.uleth.ca/finearts/admissions, contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email finearts.admissions@uleth.ca.

2. Digital Audio Arts Major

In addition to the general admission requirements outlined in **Admission (p. 19)**, 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.uleth.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.

Digital Audio Arts Portfolio Content

Applicants must submit to the Department of Music a digital portfolio that includes three parts:

1. Essay

A minimum 600-word essay that describes the following: (1) reasons for choosing this program, (2) area of interest in the Digital Audio Arts (production, film, broadcast, composition, and/or computer music), (3) all audio and technology experiences in the area, (4) music theory background, and (5) any other information the applicant deems relevant.

2. Audio Examples

Applicants must submit three to five audio examples. Submissions may or may not be original compositions. Submissions of audio for film or other visual media in QuickTime and other digital imagery are also acceptable.

Although not required, it is strongly recommended applicants use one or more of the following options to diversify the examples:

- Music Production – a piece of music from any genre produced and recorded by the applicant.

- Audio for Film – remove the sound from a scene in a movie or video and reproduce all dialogue, sound effects and scores.
- Soundscape – create an experimental piece by layering sounds produced either electronically or acoustically.
- Sonic Art – create an experimental work by exploring the aural domains of art and perception using notions of sound, listening and hearing as predominant creative forces.
- Radio Advertisement – create a 30-second radio ad using dialogue, sound effects, and music.

3. Inventory List

Applicants will include an inventory list of the examples including the title and date of each work, names of collaborators, and a description of the process used (including hardware and software). The list must also include the applicant's name and contact information.

Portfolio Review Dates

Portfolio submission will be reviewed according to the following schedule:

December 15 - first round

February 15 - second round

March 15 - third round

June 15 - final deadline for submission and final evaluation

Note: Portfolios must be submitted by March 1 to be considered for early admission. June 15 is the final date portfolios are accepted for the fall term.

Portfolio Submission

Portfolios are submitted online at:
ulethbridge.slideroom.com

For more information, visit the Faculty of Fine Arts website at www.uleth.ca/finearts/admissions, contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email finearts.admissions@uleth.ca.

h. Post-Diploma Degree Programs (After a Two- or Three-Year Diploma)

I. 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.

See www.uleth.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.¹

¹ 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 admission is competitive. Selections are based on a combination of diploma GPA and portfolio/audition. For **Additional Admission Requirements** (see www.uleth.ca/ross/admissions/undergrad/additional-admission-requirements). For portfolio/audition deadlines see **Application and Document Deadlines** (see www.uleth.ca/ross/admissions/undergrad/deadlines).

Portfolio/Audition Content

Art:

See Art Portfolio instructions in Bachelor of Fine Arts - Art (p. 140). Portfolio requirements are also available at www.uleth.ca/finearts/admissions.

Note: Students pursuing a Post-Diploma B.F.A. - Art with a major in Art History/Museum Studies are not required to submit a portfolio.

Dramatic Arts:

Technical/Design majors: Materials representative of 10-20 recent theatre experiences as performer, designer or technician. Examples include: list of productions, roles, reviews, photographs, programs, and/or video.

Performance majors: As above and audition/interview.

Portfolio and audition/interview requirements are also available at www.uleth.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.uleth.ca/finearts/admissions. Also see **Bachelor of Music, Music Major** (p. 142).

Portfolio Submission

Portfolios are submitted online at:
ulethbridge.slideroom.com

For more information, visit the Faculty of Fine Arts website at www.uleth.ca/finearts/admissions, contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email finearts.admissions@uleth.ca.

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.uleth.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.uleth.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. - Multidisciplinary, B.F.A. - Native American Art, 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. 23**.

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. - Native American 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.F.A. - Art with an Art Studio major must meet the portfolio requirements as indicated in **3.b.2**. above.

Second degree applicants to the B.F.A. - Native American Art with an Art Studio major must meet the portfolio requirements as indicated in **3.b.2**. above.

Second degree applicants to the B.F.A. - New Media must meet the portfolio requirements as indicated in **3.f**. above.

Second degree applicants to the B.Mus. with a Music major must audition as indicated in **3.g.1**. above.

Second degree applicants to the B.Mus. with a Digital Audio Arts major must meet the portfolio requirements as indicated in **3.g.2**. above.

k. Bachelor of Arts and Science

See **Faculty of Arts and Science (p. 83)**

l. Bachelor of Arts/Bachelor of Education

See **Combined Degrees (p. 203)**

m. Bachelor of Fine Arts - Art/Bachelor of Education

See **Combined Degrees (p. 223)**

n. Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education

See **Combined Degrees (p. 225)**

o. Bachelor of Fine Arts - New Media/Bachelor of Education

See **Combined Degrees (p. 228)**

p. Bachelor of Music/Bachelor of Education

See **Combined Degrees (p. 230)**

q. Bachelor of Arts/Bachelor of Management

See **Combined Degrees (p. 236)**

r. Bachelor of Fine Arts - New Media/Bachelor of Management

See **Combined Degrees (p. 254)**

s. Bachelor of Fine Arts - New Media/Bachelor of Science (Computer Science)

See **Combined Degrees (p. 253)**

t. Post-Diploma Combined Degrees Programs in Fine Arts and Education

See **Combined Degrees (p. 259)**

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. 144)**.

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. 79**)

b. Academic Standards for Bachelor of Fine Arts - Art, Bachelor of Fine Arts - Dramatic Arts, Bachelor of Fine Arts - Multidisciplinary, Bachelor of Fine Arts - Native American Art, 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 - Multidisciplinary, Bachelor of Fine Arts – Native American Art, 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. 26**).

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)
1-10	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. 277** 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).

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.

i. 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. 71**).
- c. 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. 49**).
- 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. 49.**)

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 either or both areas. Studio instruction is available in drawing, painting, sculpture, photo-arts, printmaking, computer art, video, installation art, performance art, and audio art. Art History and Museum Studies courses are available in all periods and genres of western art including First Nations' and Canadian Art history.

Thirteen required courses (39.0 credit hours):

Art 2031 - Foundation Studio (Drawing and Image)
 Art 2032 - Foundation Studio (Object and Space)
 Art 3010 - Drawing (Principles and Practices)
 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 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

Notes

A student proceeding beyond these minimum requirements may choose to focus on Art Studio, Art History, or Museum Studies courses.

See also:

- Bachelor of Fine Arts - Art
- Bachelor of Arts/Bachelor of Education - Art/Art Education
- Bachelor of Fine Arts - Art/Bachelor of Education - Art/Art Education
- Bachelor of Arts/Bachelor of Management - Art

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
 Drama 3151 - Play Reading and Analysis II
 Drama 4211 - Theories of 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

One of:

English 3201 - Elizabethan and Jacobean Drama
 English 3602 - Shakespeare
 English 3620 - Modern Drama
 English 3660 - Contemporary Drama

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.

See also:

- Bachelor of Fine Arts - Dramatic Arts
- Bachelor of Arts/Bachelor of Education - Dramatic Arts/Drama Education
- Bachelor of Fine Arts - Dramatic Arts/Bachelor of Education - Dramatic Arts/Drama Education
- Bachelor of Arts/Bachelor of Management - Dramatic Arts

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 2080 - Western Art Music

Music 2090 - The Eighteenth Century

Music 2160 - Theory I

¹Music 2161 - Musicianship Skills I

Music 2260 - Theory II

¹Music 2261 - Musicianship Skills II

Music 2500 - Introduction to Music Technology

Three of:

Music 3030 - Film Music

²Music 3200 - Popular Music (Series)

Music 3261 - Music in Recital

Music 3721 - World Music

Music 3734 - Portfolio and Music Industry

Music 3850 - Topics in Music

³Seven 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

¹ 1.5 credit hours.

² Only one offering of Music 3200 may count toward the "Three of" list. Additional offerings of Music 3200 may be taken as Music electives.

³ 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).

See also:

- Bachelor of Music
- Bachelor of Arts/Bachelor of Education - Music/Music Education
- Bachelor of Music/Bachelor of Education - Music/Music Education
- Bachelor of Arts/Bachelor of Management - Music

b. B.F.A. - Art

The Department of Art offers degrees in Art Studio and Art History/Museum Studies. Within a liberal education context, the programs provide the opportunity for intensive instruction in studio production and in art history and museum studies, and for engagement with theoretical and historical discourses related to contemporary art.

Art Studio courses combine traditional and emerging media, such as drawing, painting, sculpture, computer-based art, audio art, photography, video, printmaking, installation and performance art. Spacious and well-equipped facilities permit students to undertake projects in an environment of expert technical support, creative guidance, and critical dialogue. Foundation courses provide an introduction to a diversity of materials and ideas that are expanded upon in upper-level courses. Senior students are allocated individual studio spaces facilitating independent art production at an advanced level.

The Art History/Museum Studies program concentrates primarily on nineteenth to twenty-first century European, North American, and First Nations art history. This degree program is unique in Canada with its combination of history, theory, and hands-on museum experience at the undergraduate level. Students intern in regional public art galleries and museums and gain valuable, career-specific skills in the context of the University's renowned teaching collection of over 13,000 objects.

The Visiting Speakers in the Arts Program, offered through Art NOW and Architecture and Design NOW, provides extensive exposure to leading practitioners in the field. With several high-profile visitors every week—including artists, critics, historians and curators—students have a unique learning experience, one that illuminates national and international achievement. Course credit is available for attendance in the Visiting Speakers Series in Art 3261 - Art NOW, Art 3262 - Art NOW, Art 3210 - Architecture and Design NOW I, and Art 4210 - Architecture and Design NOW II.

These programs prepare students to become professional artists or art educators, or for careers in gallery and museum work. They provide a solid base for further studies in Art Studio, Art History, Museum Studies, Media

Studies, Art Education, Architecture, Design, and related disciplines.

Students interested in pursuing a B.A. with an Art major should refer to the degree requirements listed under **B.A.** above (p. 146).

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. 71**).
- 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. 49**).
- d. 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. 49**).
- f. 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.
- g. Completion of a minimum of 27 (81.0 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. 49**).

Required Art, Art History, and Museum Studies Courses:

Art 2031 - Foundation Studio (Drawing and Image)
 Art 2032 - Foundation Studio (Object and Space)
 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

Students must choose either the Art Studio major or the Art History/Museum Studies major listed below:

I. Art Studio Major:

Art 3010 - Drawing (Principles and Practices)

Art 3040 - Advanced Studio
(6.0 credit hours)

Art 4048 - Senior Studio
(6.0 credit hours)

Art Studio: List I

Three of:

Art 2350/Indigenous Studies 2350 - Indigenous Art Studio
 Art 3005 - Print Media Without a Press OR Art 3006 - Print Media With a Press
 Art 3022 - Introduction to Painting
 Art 3026 - Photo-Arts I
 Art 3032 - Sculpture I
 Art 3060 - Media Arts (Introduction to Digital Studio) OR Art 3061 - Media Arts (Video Sketchbook)

Art Studio: List II

Four of:

Art 3007 - Advanced Print Media
 Art 3011 - Drawing (Advanced)
 Art 3015 - Art Studio (Series)
 Art 3023 - Painting Studio: Material, Colour, Space
 Art 3024 - Painting Studio: Painting in the Expanded Field
 Art 3027 - Photo-Arts II
 Art 3028 - Photo-Arts III
 Art 3033 - Sculpture II
 Art 3034 - Sculpture III
 Art 3035 - Context and Environment
 Art 3062 - Media Arts (Advanced Digital Studio)
 Art 3160 - Drawing (The Body)
 Art 3350/Indigenous Studies 3350 - Indigenous Art Studio - Advanced

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)

Elective Art or non-Art courses: five courses (15.0 credit hours)

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 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

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

Elective Art or non-Art courses: five 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.uleth.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** 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. 281) 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.

- 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', 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. 50)** 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. above (p. 146)**.

I. Degree Requirements

- Successful completion of 40 courses 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 (on the University of Lethbridge's 4.0 scale) in all Drama courses.
- Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**).
- At least 13 Drama courses at the 3000/4000 level.
- A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 49**).

- e. 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. 49**).

- f. Residence requirement: 20 courses, including 12 in Drama of which at least seven must be at the 3000/4000 level.

- g. Completion of a minimum of 27 Drama courses for Performance or Theatre Studies majors and a minimum of 24 Drama courses for Technical/Design majors (see **Academic Regulations, Exceeding Course Limits, p. 49**).

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

Required cognate:

One of :

English 3201 - Elizabethan and Jacobean Drama

English 3602 - Shakespeare

English 3620 - Modern Drama

English 3660 - Contemporary Drama

Students initially choose one of three majors: Performance, Technical/Design, or Theatre Studies. 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 Theatre Studies or 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

One of:

Drama 3151 - Play Reading and Analysis II

Drama 4211 - Theories of Theatre

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 3151 - Play Reading and Analysis II
 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 3831 - Technical Theatre Construction: Costume
 Drama 3832 - Technical Theatre Construction: Scenic
 Drama 3833 - Technical Theatre Construction: Lighting

Two of:

Drama 3845 - Design for Theatre: Costume
 Drama 3846 - Design for Theatre: Scenic
 Drama 3847 - Design for Theatre: Lighting

One Drama elective (3.0 credit hours) at the 3000/4000 level

Seven electives (21.0 credit hours) from any Faculty or School

3. Theatre Studies Major

Note: Admission to the Major in Theatre Studies for the B.F.A. - Dramatic Arts program has been suspended, beginning July 1, 2015, until further notice.

One of:

Drama 2825 - Introduction to Design for Theatre
 Drama 2830 - Stage Makeup

Six 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 2750 - Playwriting I

Drama 2600 - Drama Portfolio I

One of:

Drama 3600 - Drama Portfolio II
 Drama 4600 - Drama Portfolio III

Two of:

Drama 3030 - Introduction to Film Studies
 Drama 3151 - Play Reading and Analysis II
 Drama 3870 - Technical and Design History A
 Drama 4211 - Theories of Theatre

Eight Drama electives (24.0 credit hours) at the 3000/4000 level

Four electives (12.0 credit hours) from any Faculty or School

4. 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.uleth.ca/ross/ppgs.

d. B.F.A. - Multidisciplinary

The B.F.A. - Multidisciplinary 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.

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, 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.

2. 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. 71**).
- 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:
 1. Minimum of 13 courses in a major area.
 - a. Art - If the major area is Art, required courses include: Art 2031, Art 2032, 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 2080, Music 2160, 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. 49**).

e. B.F.A. - Native American Art

The Bachelor of Fine Arts - Native American 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 may choose a major in Art Studio or Art History/Museum Studies, each of which has an Indigenous Art emphasis. Within a liberal education context, the programs provide the opportunity for intensive instruction in studio production and in art history and museum studies, and for engagement with theoretical and historical discourses related to contemporary art.

Art Studio courses combine traditional and emerging media, such as drawing, painting, sculpture, computer-based art, audio art, photography, video, printmaking, installation, and performance art. Spacious and well-equipped facilities permit students to undertake projects in an environment of expert technical support, creative guidance, and critical dialogue. Foundation courses introduce a diversity of materials and ideas that are expanded upon in upper-level courses. Courses focusing on Indigenous Art are taught from a First Nations' perspective allowing for a deep engagement with First Nations' studio issues. Senior students are allocated individual studio spaces facilitating independent art production at an advanced level.

The Art History/Museum Studies program concentrates primarily on nineteenth to twenty-first century European, North American, and First Nations' Art History. This degree program is unique in Canada with its combination of history, theory, and hands-on museum experience at the undergraduate level. Students intern in regional public art galleries and museums and gain valuable, career-specific skills in the context of the University's renowned teaching collection of over 13,000 objects. Courses taught from a First Nations' perspective on Indigenous Art history provide an important component of this degree.

The Visiting Speakers in the Arts Program, offered through Art Now and Architecture and Design NOW, provides extensive exposure to leading practitioners in the field. With several high-profile visitors every week—including artists, critics, historians, and curators—students have a unique learning experience, one that illuminates national and international achievement.

These programs prepare students to become professional artists or art educators, or for careers in gallery and museum work. They provide a solid base for further studies in Art Studio, Art History, Museum Studies, Media Studies, Art Education, Architecture, Design, and 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 **Arts and Science, Art (B.A.) or Indigenous Studies (B.A.) (p. 89 and p. 103)**.

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's 4.0 scale).
- b. A minimum cumulative GPA of 2.50 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. 71**).
 - d. 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.
 - e. A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 49**).
 - g. 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. 49**).
 - f. 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.
 - g. Completion of a minimum of 21 (63.0 credit hours) Art, Art History, and Museum Studies courses and eight Indigenous Studies courses for Art Studio majors, and a minimum of 18 (54.0 credit hours) Art, Art History, and Museum Studies courses and nine Indigenous Studies courses for Art History/Museum Studies (see **Academic Regulations, Exceeding Course Limits, p. 49**).
- Required Art, Art History, Museum Studies and Indigenous Studies Courses:**
- Art 2031 - Foundation Studio (Drawing and Image)
 - Art 2032 - Foundation Studio (Object and Space)
 - Art 2350/Indigenous Studies 2350 - Indigenous Art Studio
- 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
 - 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 3010 - Drawing (Principles and Practices)
- Art 3040 - Advanced Studio (6.0 credit hours)
- Art 3350/Indigenous Studies 3350 - Indigenous Art Studio - Advanced
- Art 4048 - Senior Studio (6.0 credit hours)

Art Studio: List I

Two of:

- Art 3005 - Print Media Without a Press OR Art 3006 - Print Media With a Press
- Art 3022 - Introduction to Painting
- Art 3026 - Photo-Arts I
- Art 3032 - Sculpture I
- Art 3060 - Media Arts (Introduction to Digital Studio) OR Art 3061 - Media Arts (Video Sketchbook)

Art Studio: List II

Four of:

- Art 3007 - Advanced Print Media
- Art 3011 - Drawing (Advanced)
- Art 3015 - Art Studio (Series)
- Art 3023 - Painting Studio: Material, Colour, Space
- Art 3024 - Painting Studio: Painting in the Expanded Field
- Art 3027 - Photo-Arts II
- Art 3028 - Photo-Arts III
- Art 3033 - Sculpture II
- Art 3034 - Sculpture III
- Art 3035 - Context and Environment
- Art 3062 - Media Arts (Advanced Digital Studio)
- Art 3160 - Drawing (The Body)

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)

Three electives (9.0 credit hours) chosen from any Faculty or School

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

Four electives (12.0 credit hours) chosen from any Faculty or School

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.uleth.ca/ross/ppgs.

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.

I. 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. 71**).
 - 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. 49**).
 - h. 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. 49**).
 - f. 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.
 - g. Completion of the following courses:
 - Art 2031 - Foundation Studio (Drawing and Image)
 - Art 2032 - Foundation Studio (Object and Space)
 - Cinema 1000 - Introduction to Cinema Studies
 - 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 - History and Theory of New Media
 - 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:**
- Cinema 3010 - Cinematography and Lighting
 - Cinema 4010 - Narrative Production Techniques
 - Cinema 4420 - Screenwriting
 - Cinema 4820 - Writing for Comedy
 - 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 4520 - Advanced Web Design
 New Media 4830 - Theory and Practice of Motion Capture

One 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 - History of Animation
 New Media 3250 - Media, Advertising, and Consumer Culture
 New Media 3300 - Theory and Aesthetics of Digital Games
 New Media 3560 - Popular Narrative
 New Media 3650 - Modern Media, War and Propaganda

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 Cinema and/or New Media electives (9.0 credit hours) at the 3000/4000 level.

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.*

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.

h. Concentrations

Students may opt to further specialize in one of three areas by completing one of the following concentrations. Concentrations are optional. Students may not double count New Media or Cinema courses to meet degree requirements that can only be met by either discipline. The completed concentration will be acknowledged on the official academic transcript.

Animation and Gaming Concentration (optional)**Required courses:**

New Media 3310 - Game Design: Theory and Practice
 New Media 3640 - Character Animation I

Three of:

New Media 2015 - Digital Drawing and Animation
 New Media 3710 - Creative Foundations For Game Development

New Media 4620 - Character Animation II
 New Media 4710 - Video Game Production
 New Media 4830 - Theory and Practice of Motion Capture

Cinema Production Concentration (optional)**Required courses:**

Cinema 3010 - Cinematography and Lighting
 Cinema 4010 - Narrative Production Techniques
 New Media 3110/Cinema 3110 - Postproduction and Visual Effects

Two of:

Cinema 4420 - Screenwriting
 Cinema 4820 - Writing for Comedy
 New Media 3640 - Character Animation I
 New Media 3810 - Expanded Cinema

Web and Graphic Design Concentration (optional)**Required courses:**

New Media 3720 - The Dynamic Web
 New Media 4520 - Advanced Web Design

Three of:

New Media 2015 - Digital Drawing and Animation
 New Media 2040 - Function and Culture of Design
 New Media 3040 - Colour Theory and Digital Photo Manipulation
 New Media 3820 - Information Design

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.uleth.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** 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** 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. 50)** 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. 281)** 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 are 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 (Music 2160 and Music 2161) in their first fall term at the University in order to permit the completion of the degree within a four-year period. While all B.Mus. students with a major in Music should begin the studio sequence (Music Studio 2148) in their first term at the University, composition students must begin Studio I in the fall term.

Students interested in pursuing a B.A. with a Music major should refer to the degree requirements listed under **B.A. above (p. 146)**.

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. 71**).

- d. A maximum of five Independent Studies (15.0 credit hours) (see **Academic Regulations, Exceeding Course Limits, p. 49**).
- i. 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. 49**).
- e. 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.
- f. 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

Music 2160 - Theory I

¹Music 2161 - Musicianship Skills I

Music 2260 - Theory II

¹Music 2261 - Musicianship Skills II

Music 3360 - Theory III

¹Music 3361 - Musicianship Skills III

Music 3460 - Theory IV

¹Music 3461 - Musicianship Skills IV

¹ 1.5 credit hours

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):

²Music 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

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

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.

² Students may complete multiple offerings of Music 3000 to meet the Music elective requirement.

Music Ensemble Activities

Six Music Ensemble Activity courses (1.5 credit hours each)

Note: Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:

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)

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

Electives

Two courses from any Faculty or School.

2. Digital Audio Arts Major

Applied

Music 2181 - Acoustics
 Music 2510 - Introduction to Digital Audio
 Music 2550 - Audio Production Techniques
 Music 3605 - Introduction to Audio Software Programming
 Music 3612 - Interactive Computer Music Performance and Production
 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)
² 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 3630 - Advanced Audio Production Techniques
 Music 3650 - Location Recording and Production
 Music 3660 - Analysis of Twentieth- and Twenty-first-Century Music
 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 - Audio Spatialization Techniques
 Music 4660 - Form and Analysis
 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

² Students may complete multiple offerings of Music 3000 to meet the Music elective requirement.

g. 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
- Music 3721 - World Music
- Music 4080 - Music After 1945
- Music 4636 - Music Design for Film and Digital Media
- Music 4660 - Form and Analysis
- 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:

- ¹ Education 3875 - Brass and Percussion Methods
- ¹ Education 3876 - Woodwind and String Methods
- ¹ 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)
- ¹ 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 3871 - Opera Workshop I
- Music 4871 - 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
- ¹ Music Ensemble Activity 3870 - Chamber Music I AND Music Ensemble Activity 3871 - Chamber Music II (1.5 credit hours each)

¹ Students choosing these courses will need to include them in the two open electives.

h. 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.uleth.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) 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) 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.uleth.ca/fine-arts/student-support/admissions/music-additional-requirements

Audition application: www.uleth.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. 49**).

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. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) in all courses in the Fine Arts discipline.
- b. 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.95**).
- c. A minimum of 10 courses at or above the 3000 level.
- d. Not more than three Independent Study courses may be taken for credit toward the degree (see **Academic Regulations, Exceeding Course Limits, p. 49**).
- e. The entire program must be approved in advance by an academic advisor in the Faculty of Fine Arts.
- f. 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:

- a. Required Art, Art History, and Museum Studies Courses:
See **Section 8.a.i.h. (p. 149)**.
- b. Required Drama Courses:
See **Section 8.b.i.h. (p. 151)**.
- c. Required Music and Music Studio Courses:
See **Section 8.e.i.g. (p. 158)**.

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. A minimum cumulative GPA of 2.50 (on the University of Lethbridge 4.0 scale) in all courses in the Fine Arts discipline.
- b. 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. 71**):
 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.

- c. A minimum of eight courses at or above the 3000 level.
- d. Not more than three Independent Study courses may be taken for credit toward the degree (see **Academic Regulations, Exceeding Course Limits, p. 49**).
- e. The entire program must be approved in advance by an academic advisor in the Faculty of Fine Arts.
- f. 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:

- a. Required Art, Art History, and Museum Studies Courses:
See **Section 8.a.1.h. (p. 149)**.
- b. Required Drama Courses:
See **Section 8.b.1.h. (p. 151)**.
- c. Required Music and Music Studio Courses:
See **Section 8.e.1.g. (p. 158)**.

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. 71**):
 - 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. 49**).
- 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 **Section 8.c.2.e. (p. 153)**.

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 (p. 83)**.

l. B.F.A. - Art/B.Ed.

See **Combined Degrees (p. 223)**.

m. B.F.A. - Dramatic Arts/B.Ed.

See **Combined Degrees (p. 225)**.

n. B.F.A. - New Media/B.Ed.

See **Combined Degrees (p. 228)**.

o. B.Mus./B.Ed.

See **Combined Degrees (p. 230)**.

p. Post-Diploma B.F.A. - Art/B.Ed.

See **Combined Degrees (p. 259)**.

q. Post-Diploma B.F.A. - Dramatic Arts/B.Ed.

See **Combined Degrees (p. 259)**.

r. Post-Diploma B.Mus./B.Ed.

See **Combined Degrees (p. 259)**.

s. B.F.A. - New Media/B.Mgt.

See **Combined Degrees (p. 254)**.

t. B.F.A. - New Media/B.Sc. (Computer Science)

See **Combined Degrees (p. 253)**.

u. B.A. After an Approved Degree

See **Faculty of Arts and Science (p. 114)**.

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 - Multidisciplinary, Bachelor of Fine Arts - Native American Art, 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. 71**). 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. 113**). 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 Digital Audio Arts and Music 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.uleth.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

Please visit the website for current fees www.uleth.ca/music-conservatory/programs.

FACULTY OF HEALTH SCIENCES

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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* (http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Guidelines/RN_RequisiteSkills_May2011.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 accommodation¹ in becoming a member of the nursing profession.

¹*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

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 and readmission based on academic qualifications.

Applicants are advised to refer to www.uleth.ca/ross/admissions/undergrad/deadlines for Application and Document Deadlines.

Note: *Applicants may be invited to an interview.*

I. Admission Requirements

a. Academic Qualifications

In addition to the general admission requirements outlined in **Admission (p. 21)**, applicants to the B.N. program must present the following Alberta high school courses or equivalents:

English Language Arts 30-1 (minimum of 60%)

Biology 30

Chemistry 30

Mathematics 30-1 or Mathematics 30-2

A distinct fifth course at the Grade 12 level (excluding Special Projects) (see **p. 21**)

b. Spoken English Language Proficiency Requirement (SELP) (see **p. 170**).

c. Competitive Admission

For competitive admission purposes, applicants will be ranked on the basis of the average of the grades in the five courses listed above. For Transfer applicants, a grade in an approved university-level course (minimum 3.0 credit hours) in the same discipline may be used in place of the high school mark, if it is more advantageous. The fifth course may be substituted by any minimum 3.0 credit hour university-level course.

d. 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 www.uleth.ca/ross/admissions/undergrad/deadlines):

1. A *Letter of Intent*, describing the nature of previous experience as it relates to nursing and the reason for pursuing Nursing
2. A *Letter of Reference* from an employer
3. A resume detailing relevant work, volunteer, and life experience

Note: *Number of years, currency and relevance of experience will be considered.*

2. Readmission to B.N. program

Applicants seeking readmission to the B.N. program must submit a *Letter of Intent* at the time of application (see www.uleth.ca/healthsciences/intent).

3. 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.uleth.ca/healthsciences/intent).

4. 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.

5. Time Limit for Retention of Courses

Nursing, Human Anatomy/Physiology, and Microbiology 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. See **Academic Regulations, Residence Requirements and Time Limits, p. 51**.

6. Required Documentation

Newly admitted students must provide the following documents by the first day of classes:

- a. A specific schedule of immunization (forms provided by Lethbridge College). Immunizations must be renewed as required in each year of the program.
- b. 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.
- c. 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. 171)**.

Note: *Students will not be allowed to enter clinical practica if they do not provide these documents.*

All students will be required to have face masks fitted prior to clinical placements. This procedure will occur during the first month of classes.

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 and readmission based on academic qualifications.

Applicants are advised to refer to www.uleth.ca/ross/admissions/undergrad/deadlines for Application and Document Deadlines.

Note: *Applicants may be invited to an interview.*

I. Admission Requirements

- a. Applicants to the B.N. After Degree program must present an approved undergraduate degree no later than the final document deadline (see www.uleth.ca/ross/admissions/undergrad/deadlines).

An approved degree is a baccalaureate degree requiring a minimum of 30 or more courses (90.0 credit hours) from a recognized degree-granting institution. (See **Admission, Previous Degree, p. 23**).

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.

Note: *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 p. 166).*

- b. Spoken English Language Proficiency (SELP) Requirement (see **p. 170**).
- c. The following courses are required for admission:
 1. Human Anatomy and Physiology, 6.0 credit hours (two term courses);
 2. Microbiology, 3.0 credit hours (one term course); (*Note: Beginning with the Fall 2022 intake, applicants will not be required to have a course in Microbiology, pending approval from the Nursing Education Program Approval Committee.*)
 3. Statistics, 3.0 credit hours (one term course); and,
 4. Fine Arts or Humanities courses, 6.0 credit hours (two term courses) (See School of Liberal Education, LIST I: Fine Arts and Humanities Courses, **p. 72**); and,
 5. Social science courses, 6.0 credit hours (two term courses) (See School of Liberal Education, LIST II: Social Science Courses, **p. 73**).

Note: *Human Anatomy and Physiology, Microbiology and Statistics must be completed within 10 years preceding the term of admission.*

- d. **Reporting Midterm Grades**
Applicants who are currently completing the above courses required for admission are strongly encouraged to report their midterm grades using the *Request for Midterm Grades* form before the April 1 Admission Decision Documents deadline (see www.uleth.ca/healthsciences/forms). Reporting midterm grades for other courses is optional.
- e. **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), Microbiology (3.0 credit hours), Statistics (3.0 credit hours) and the terms containing the most recent additional 16 graded university-level term courses (48.0 credit hours).
- f. **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:
1. 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
 2. A *Letter of Reference* from an employer
 3. A resume detailing relevant work, volunteer, and life experience
- Note:** Number of years, currency and relevance of experience will be considered.
2. **Readmission to B.N. After Degree program**
Applicants seeking readmission to the B.N. After Degree program must submit a *Letter of Intent* at the time of application (see www.uleth.ca/healthsciences/intent).
3. **Required Documentation**
Newly admitted students must provide the following documents by the first day of classes:
- a. A specific schedule of immunization (forms provided by Lethbridge College). Immunizations must be renewed as required in each year of the program.
 - b. 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.
 - c. 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. 171)**.
- Note:** Students will not be allowed to enter clinical practica if they do not provide these documents.

All students will be required to have face masks fitted prior to clinical practicum placements. This procedure will occur during the first month of classes.

c. Bachelor of Health Sciences

1. Aboriginal Health

- a. Admission Requirements:
 1. In addition to the general admission requirements outlined in **Admission (p. 21)**, applicants to the Bachelor of Health Sciences (B.H.Sc.) program with a major in Aboriginal Health must present the following Alberta high school courses or equivalents:
 - English Language Arts 30-1
 2. Spoken English Language Proficiency Requirement (SELP) (see **p. 170**).

2. 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*.

- a. Admission Requirements
 1. All applicants must meet the general admission requirements outlined in **Admission (p. 21)**.
 2. 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.uleth.ca/healthsciences/statement.
 3. Spoken English Language Proficiency Requirement (SELP) (see **p. 170**).

3. Public Health

- a. Admission Requirements:
 1. In addition to the general admission requirements outlined in **Admission (p. 21)**, applicants must present the following Alberta high school courses or equivalents:
 - English Language Arts 30-1
 - Biology 30
 - Chemistry 30
 - Mathematics 30-1 or Mathematics 30-2
 2. Spoken English Language Proficiency Requirement (SELP) (see **p. 170**).

d. Post-Diploma Bachelor of Health Sciences

1. Aboriginal Health

Applicants to the Post-Diploma Bachelor of Health Sciences (B.H.Sc.) program with a major in Aboriginal Health must meet the following requirements for admission:

a. Approved Diploma

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.

b. Spoken English Language Proficiency Requirement (SELP) (see p. 170).

2. Addictions Counselling

Applicants to the Post-Diploma Bachelor of Health Sciences (B.H.Sc.) program with a major in Addictions Counselling must meet the following requirements for admission:

a. Approved Diploma

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.uleth.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).

b. Spoken English Language Proficiency Requirement (SELP) (see p. 170).

3. Public Health

a. Approved Diploma

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.uleth.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).

b. Spoken English Language Proficiency Requirement (SELP) (see p. 170).

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.uleth.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. 23**.

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.

3. Spoken English Language Proficiency Requirement (SELP) (see p. 170).

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. 51**).

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 **Combined Degrees (p. 257)**.

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. 26**), 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. 31)**.

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. 277** 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).

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. 54) 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) and the Code of Ethics of the Canadian Nurses Association (www.cna-aiic.ca).

2. Bachelor of Health Sciences

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

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/en/ethics/).

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).

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) and the Alberta Therapeutic Recreation Association's Code of Ethics (<http://www.alberta-tr.org>).

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) ¹	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

¹ 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

- 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 or Nursing practicum course; or
 - The student fails to meet the Standards of Professional Conduct (see **p. 170**)

A student dismissed for academic reasons may apply for readmission by the appropriate deadline after a lapse of one full year. 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.

- 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:

- Students completing four or more graded courses in one term must achieve a GPA of 3.75 or higher on these courses; or,
- 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. 166**.

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

- 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.
- Attain a minimum cumulative GPA of 2.50 on all required Nursing and Health Sciences courses taken for credit towards the degree.
- Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**).
Note: Psychology 1160, taken at Lethbridge College, transfers as Psychology 1000 at the University of Lethbridge and will count as a Social Science course towards the Lib Ed Requirement in the B.N. program.
- Not more than three Independent Study courses may be taken for credit toward the degree (see **Independent Study, p. 170**).
- 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.
- 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 1000 - 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 3002 - Health Promotion
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 2000 - Population Health

c. Elective:

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. 172**). For course sequencing plans see www.uleth.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. 172**). For course sequencing plans see www.uleth.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. 71**).
- d. Not more than three Independent Study courses may be taken for credit towards the degree (see **Independent Study, p. 170**).
- 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, Policies, and Program Requirements, Exceeding Course Limits, p. 49**).
- 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 - First Nations Counselling
- Addictions Counselling 3729 - Studies in Specific Addictive Disorders (Series)
- 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
- Management 3080 - Managerial Skill Development
- 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

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.uleth.ca/ross/ppgs.

3. Addictions Counselling Major

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 - First Nations Counselling
- Addictions Counselling 2245 - Assessment of Addictions
- Addictions Counselling 3002 - Health Education and Promotion
- Addictions Counselling 3050 - Internship in Addictions Counselling I (15.0 credits hours)
- Addictions Counselling 3120 - Counselling III (Family Counselling)
- Addictions Counselling 3130 - Diversity and Counselling
- Addictions Counselling 3140 - Behavioural Pharmacology
- Addictions Counselling 3150 - Adult Psychopathology
- Addictions Counselling 3240 - Concurrent Disorders
- Addictions Counselling 3260 - Research in Addictions
- Addictions Counselling 3420 - Ethics in Addictions Counselling

Addictions Counselling 3729 - Studies in Specific Addictive Disorders (Series)
 Addictions Counselling 3739 - Addictions in Particular Populations (Series)
 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 3450/Psychology 3450 - Applied Statistics for Clinical Practice
 Liberal Education 1000 - Knowledge and Liberal Education
 Psychology 1000 - Basic Concepts of Psychology

2. Electives:

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.uleth.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 3500/Management 3825 - Information in Health Care
 Health Sciences 3510 - Program Planning and Evaluation

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.uleth.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.uleth.ca/ross/ppgs.

d. Post-Diploma Bachelor of Health Sciences

1. General Requirements

- 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.
- 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.
- 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. 71**).
- Not more than three Independent Study courses may be taken for credit towards the degree (see **Independent Study, p. 170**).
- Residence requirement: 20 courses (60 credit hours).
- 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. 174**).

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 Major, p. 174.**).

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 3500/Management 3825 - Information in Health Care
 Health Sciences 3510 - Program Planning and Evaluation
 Health Sciences 3800 - Teaching and Learning for Health Professions

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.uleth.ca/ross/ppgs.

e. Bachelor of Therapeutic Recreation

1. General Requirements

- 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.

- Residence requirement: 20 course equivalents (60.0 credit hours).
- All degree requirements must be completed within six years of the first Therapeutic Recreation course used for credit towards the degree.
- 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. 71**) as follows:
 - At least one course from List I: Fine Arts and Humanities Courses; and
 - 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 3400 - Facilitation of Therapeutic Recreation Interventions
 Therapeutic Recreation 3500 - Therapeutic Recreation for Special Populations
 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 4550 - Practicum 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

Two Electives (6.0 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.uleth.ca/ross/ppgs.

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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 (see **Collaborating and Partnering Institutions** for a list of colleges with approved diplomas). 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.

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 a Post-Bachelor Certificate in Accounting for students with an undergraduate degree seeking a Chartered Professional Accountant (CPA) designation or certificate in Accounting (see **p. 196**).

The Dhillon School of Business also offers a Bachelor of Management (B.Mgt.) as a Second Degree program (see **p. 193**), and as a combined degree program (see **p. 201**).

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, the Post-Bachelor Certificate in Accounting, 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

Calgary Campus

Phone: 403-571-3360

Email: 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. Management courses considered for 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.uleth.ca/ross/admissions/undergrad/general-reqs.

To meet **Additional Admission Requirements**, see www.uleth.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.uleth.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. Refer to **p. 183** 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.

Students may be required to extend their programs beyond 20 courses, depending on the major chosen and the diploma completed. For details, refer to **p. 189**.

See www.uleth.ca/postdiploma 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 no more than eight years prior to admission.

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 **p. 192** for details).

See www.uleth.ca/postdiploma 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 **p. 193**) 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. 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) Please refer to **Admission, Adult Student (Mature) Admission Route (p. 23)**.

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. 193)**.

f. Post-Bachelor Certificate in Accounting/Chartered Professional Accountant (CPA) Bridging

The **Post-Bachelor Certificate in Accounting/CPA Bridging** program (see **p. 196**) is available to applicants who have completed an approved undergraduate degree.

Some courses required in this program have prerequisite, corequisite and/or recommended background requirements. Students who have not met background requirements prior to admission may be required to complete more than 10 courses in this program. Please contact an academic advisor before applying for admission to discuss your specific program requirements.

g. Bachelor of Management/Bachelor of Education
See **Combined Degrees (p. 233)**.

h. Bachelor of Arts or Bachelor of Science/Bachelor of Management
See **Combined Degrees (p. 236)**.

i. Post-Diploma Bachelor of Management/Bachelor of Education
See **Combined Degrees (p. 263)**.

j. Bachelor of Fine Arts - New Media/Bachelor of Management
See **Combined Degrees (p. 265)**.

k. Bachelor of Health Sciences/Bachelor of Management
See **Combined Degrees (p. 257)**.

l. 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. 20**).

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.

m. 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. 25**.

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. 30**).

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.uleth.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 Management 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 3091 and Management 3092 - Integrated Management Experience
 - c. Full-term international exchange
 - d. Any TWO of the following: Management 3980 - Applied Studies, Management 3990 - Independent Study, Management 4640 - Cross-Cultural Work Study, Management 4980 - Applied Studies, or Management 4990 - Independent Study

Note: For information on international exchanges, see the International Programs website: www.uleth.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. 50)** 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: dhillion.advising@uleth.ca; website: www.uleth.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. 181)**, 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. 181)**, 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

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. 36**). Students may accelerate their programs by carrying heavier study loads or by attending summer sessions (see **Summer Session chart, p. 36**). 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), Recommended Background, and Other Registration Restrictions, p. 283** and **Academic Regulations, Waiver of Prerequisite/Corequisite, p. 50**).

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. 49**).

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. 49**), 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. 277** 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; www.ulethbridge.ca/career-bridge).

e. 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. 277** for more details. Further information can be obtained from the Career Bridge office (AH151; 403-329-2000; career.bridge@uleth.ca; 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 (**p. 183**), Post-Diploma Bachelor of Management (**p. 189**), Certificate in Management Program (**p. 193**), B.A./B.Mgt. or B.Sc./B.Mgt. (**p. 236**), B.Mgt./B.Ed. (**p. 233**), Post-Diploma B.Mgt./B.Ed. (**p. 263**), B.F.A. - New Media/B.Mgt. (**p. 265**), B.H.Sc./B.Mgt. (**p. 257**), and Post-Bachelor Certificate in Accounting (**p. 196**).

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 Certificate in Management, or the Post-Bachelor Certificate in Accounting.

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 ¹ taken at the U of L
Post-Diploma B.Mgt.	GPA calculated on the last 20 courses ¹ taken at the U of L
B.Mgt. (second degree)	GPA calculated on the last 20 courses ¹ required for the second degree taken at the U of L
B.Mgt./B.Ed.	GPA calculated on all MGT courses (from 10-20) ¹ taken at the U of L
Post-Diploma B.Mgt./B.Ed.	GPA calculated on all MGT courses (from 10-20) ¹ 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 MGT courses (from 10-20) taken at the U of L
Certificate in Management and Post-Bachelor Certificate in Accounting	GPA calculated on the last five MGT courses ¹ taken at the U of L

1. 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 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 Management.

Accounting residence requirement: see note below.

As the second degree:

15 courses, including at least 10 3000 or 4000-level courses in Management.

Accounting residence requirement: see note below.

Post-Diploma B.Mgt.

20 courses.

Accounting residence requirement: see note below.

Certificate in Management

Five courses towards the Certificate in Management.

Post-Bachelor Certificate in Accounting

Five courses towards the Post-Bachelor Certificate in Accounting.

Accounting residence requirement: see note below.

Note: *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:*

Management 3100

Management 3101

Management 3130

Management 3131

Management 3151

Management 3160

Management 3171

Management 3180

Management 3190

Management 4110

Management 4125

Management 4130

Management 4151

Management 4160

g. Time Limit for Degree

All degree requirements must be completed within 10 years after acceptance into the Dhillon School of Business.

All certificate and Post-Bachelor Certificate in Accounting 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. 71)**.

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. 182)** 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 advised to take the following courses in their first year:

Management 1000 - Introduction to Management
 Management 2100 - Introductory Accounting
 Economics 1010 - Introduction to Microeconomics
 Economics 1012 - Introduction to Macroeconomics
 Statistics 1770 - Introduction to Probability and Statistics

One of:

Writing 1000 - Introduction to Academic Writing
 A university English course

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. 182**).
2. A minimum grade of 'C-' is required in Statistics 1770; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; all Management courses, including courses cross-listed with Management; 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. 71**).
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 1000 - Introduction to Management
 Management 2020 - Marketing
 Management 2030 - Introduction to Organizational Behaviour
 Management 2070/Economics 2070 - Operations and Quantitative Management
 Management 2100 - Introductory Accounting
 Management 2400 - Management Accounting
 Management 3031 - Managing Responsibly in a Global Environment
 Management 3040 - Finance
 Management 3050 - Human Resource Management
 *Management 3061 - Information Systems and Management
 Management 3080 - Managerial Skill Development
 *Management 3650 - Introduction to International Management
 Management 4090 - Management Policy and Strategy
 Statistics 1770 - Introduction to Probability and Statistics

One of:

Writing 1000 - Introduction to Academic Writing
A university English course

*Students completing the Accounting major are not required to complete Management 3650 or Management 3061

II. BACHELOR OF MANAGEMENT (B.Mgt.) MAJORS**a. Accounting**

Economics 3030 - Managerial Economics
Management 3010 - Business Law
Management 3100 - Intermediate Financial Accounting I
Management 3101 - Intermediate Financial Accounting II
Management 3130 - Cost Accounting
Management 3131 - Management Control Systems
Management 3151 - Introduction to Tax
Management 3160 - Auditing
Management 3171 - Accounting Information Systems and Data Analytics
Management 3470 - Corporate Finance
Management 4110 - Advanced Financial Accounting
Management 4151 - Advanced Tax
Management 4160 - Accounting Theory

Two of:

Management 3180 - Financial Reporting in a Case-Based Environment
Management 3190 - Not-for-Profit and Public Sector Accounting and Performance Management
Management 4125 - Accounting and Agricultural Enterprises
Management 4130 - Advanced Managerial Accounting II

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
Three 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. 71**)
Four open electives

Note: Refer to **Residence Requirement (p. 182)** for the Accounting residence 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.uleth.ca/ross/ppgs.

b. Agricultural Enterprise Management

Management 2600 - Introduction to Agricultural Enterprise Management
Management 2610 - Legal Aspects of Agriculture
Management 2700 - Business Research Methods

Management 3070 - Introduction to Supply Chain Management

Management 3275 - Agricultural Marketing and Sales
Management 3475 - Agricultural Finance and Markets
Management 3625 - Canadian and World Agriculture
Management 3635 - International Agricultural Trade
Management 4615 - Sustainable Agriculture and Management

Economics 2350 - Economics of Agricultural Markets I

One of:

Management 3612 - Innovation and Entrepreneurship
Management 3806 - Small Business Management

One of:

Agricultural Studies 4000 - Seminar in Agricultural Issues
Management 4125 - Accounting and Agricultural Enterprises
Management 4625 - Issues in Agricultural Business

One of:

*Agricultural Studies 3300 - Modelling of Agricultural Systems
Economics 3300 - Agricultural Policy I
Economics 3350 - Economics of Agricultural Markets II
Management 3485 - Agricultural Commodity Risk Management

One of:

Management 3305 - Managing Employee Health and Safety
Management 3441 - Financial Analysis
Management 3622 - Visual Analytics

Electives:

Two 3000 or 4000-level electives
Three 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. 71**)
*Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)
*Two open electives
*If Agricultural Studies 3300 is chosen, students will need to complete one Science elective and three electives offered by any Faculty/School/any level.

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.uleth.ca/ross/ppgs.

c. Computer Science

*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
- Management 3920 - Project Management
- 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:

Three 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. 71**)

One Social Science elective chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

Three 3000 or 4000-level electives

Note: *The Dhillon School of Business has an additional residence requirement of 10 3000 or 4000-level Management courses; an exception applies to Computer Science majors who can also use 3000 or 4000-level Computer Science courses to meet this requirement.*

*A minimum grade of 'C-' is required in these courses to meet degree 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.uleth.ca/ross/ppgs.

d. 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:

Three 3000 or 4000-level Management electives
 Four 3000 or 4000-level electives
 Three 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. 71**)

Three open electives

Note: *The Dhillon School of Business has an additional residence requirement of 10 3000 or 4000-level Management courses; an exception applies to Economics majors who can also use 3000 or 4000-level Economics courses to meet this requirement.*

*A minimum grade of 'C-' is required in these courses to meet degree 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.uleth.ca/ross/ppgs.

e. Finance

Economics 3030 - Managerial Economics
 Mathematics 1510 - Calculus for Management and Social Sciences

Management 3412 - Fundamentals of Investments

Management 3470 - Corporate Finance

Management 4430 - Financial Management

One of:

Management 4421 - Financial Institutions and Markets

Management 4451 - Derivative Securities Markets

Three of:

Management 3441 - Financial Analysis

Management 3460 - Global Financial Management

Management 3475 - Agricultural Finance and Markets

Management 3480 - Personal Finance

Management 4421 - Financial Institutions and Markets

Management 4451 - Derivative Securities Markets

Management 4460 - Trading and Portfolio Management

Management 4470 and Management 4471 - Student Managed Investment Fund

One of:

Economics 2900 - Economics and Business Statistics
 Statistics 2780 - Statistical Inference

Electives:

Six 3000 or 4000-level electives

Three 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. 71**)

Four open electives

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.uleth.ca/ross/ppgs.

f. General Management

Management 2700 - Business Research Methods

Six 3000 or 4000-level Management courses

Electives:

Seven 3000 or 4000-level electives

Three 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. 71**)

Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

One Social Science elective chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

Three open electives

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.uleth.ca/ross/ppgs.

g. Human Resource Management and Labour Relations

Management 2700 - Business Research Methods
 Management 3305 - Managing Employee Health and Safety
 Management 3310 - Collective Labour Relations
 Management 3312 - Strategic Compensation
 Management 4305 - Canadian Labour and Employment Law
 Management 4310 - Advanced Organizational Behaviour
 Management 4350 - Staffing
 Management 4355 - Training and Development

Two of:

Management 3315 - Diversity in Employment
 Management 3920 - Project Management
 Management 4315 - Performance Management
 Management 4330 - The Art of Negotiations and Bargaining
 Management 4370 - Leadership in Organizations
 Management 4390 - Leading Organizational Change

One of:

Economics 2900 - Economics and Business Statistics
 Statistics 2780 - Statistical Inference

Electives:

Five 3000 or 4000-level electives

Three 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. 71**)

One Science elective chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

Three open electives

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.uleth.ca/ross/ppgs.

h. Indigenous Governance and Business Management

Management 2500 - Introduction to Indigenous Governance and Business Management
 Management 3500/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities
 Management 3515 - Canadian Indigenous Negotiations
 Management 3522 - Canadian Indigenous Project Management
 Management 4570 - Indigenous Leadership and Management
 *Indigenous Studies 1000 - Introduction to Indigenous Studies
 *Indigenous Studies 2100 - Indigenous Peoples and Law
 *Indigenous Studies 2850 - Topics Course (Indigenous Research Methodologies)

One of:

*Indigenous Studies 2230 - Family and First Nations' Community Development
 *Economics 3800 - Economic Development

One of Stream A or Stream B:

A. Governance

Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance
 Management 4507/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

Four of:

Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources
 Management 3592 - Applied Indigenous Management Issues (Series)
 Management 4508/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments
 *Indigenous Studies 2800 - Native American Politics
 1:*Political Science 3215 - Indigenous Peoples and Local Government in Canada
 Any offering in Management 3850, Management 4850, *Indigenous Studies 3850 or *Indigenous Studies 4850 with an emphasis on Indigenous Governance or Indigenous Law

OR

B. Business Management

Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada
 Management 4501 - Canadian Indigenous Tax Issues

Four of:

Management 3070 - Introduction to Supply Chain Management
 Management 3225 - Brand Management
 Management 3230 - Retailing Management
 Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources
 Management 3592 - Applied Indigenous Management Issues (Series)
 Management 3862 - E-commerce Management
 Any offering in Management 3850 or Management 4850 with an emphasis on Indigenous Business Management

Electives:

Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

Six open electives

Note: *The Dhillon School of Business has an additional residence requirement of ten 3000 or 4000-level Management 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.*

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

Notes

¹ 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.

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.uleth.ca/ross/ppgs.

i. International Management

Management 3640 - Cross-Cultural Management Practices

Management 4650 - Integrated Global Management

Four of (Global Strategy):

Management 3070 - Introduction to Supply Chain Management

Management 3460 - Global Financial Management

Management 3606 - Managing Innovation and Emerging Markets

Management 3635 - International Agricultural Trade

Management 3660/Geography 3225 - Industrial Location and Globalization of Enterprise

¹ Management 3685 - Issues in International Management (Series)

Management 3860 - Law and Institutions of International Trade

Management 4580 - Environmental Management

² Economics 4590 - Economics of Globalization

Two of (Cultural Context):

Management 3665 - Leading in the Globalized Environment

¹ Management 3815 - Regional Aspects of International Management (Series)

Management 4220 - Cross-Cultural Marketing

Management 4640 - Cross-Cultural Work Study

^{2,3} Political Science 2110 - International Relations

One of:

Geography 1200 - Introduction to Human Geography

Geography 2000 - World Regional Geography

One Exchange Term⁴:

Two 3000 or 4000-level Management courses

Two electives

Language Requirement⁵:

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 Management 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. 71**)

One open elective

Notes:

¹ Students may take up to two Series courses to meet the International Management elective requirements: two offerings in the Management 3685 Series; two offerings in the Management 3815 Series; or one offering from each Series.

² A minimum grade of 'C-' is required in these courses to meet degree requirements.

³ 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.

⁴ 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.

⁵ All language courses completed prior to the exchange must have a minimum grade of 'C-'. In general, a student may not select his or her 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.uleth.ca/ross/ppgs.

j. Marketing

Economics 3030 - Managerial Economics

Management 3210 - Consumer Behaviour

Management 3215 - Introduction to Marketing Communications and Social Media

Management 3220 - Marketing Research

Management 4230 - Marketing Management

Psychology 1000 - Basic Concepts of Psychology

Sociology 1000 - Introduction to Sociology

One of:

Psychology 2330 - Learning and Cognition

Psychology 2700 - Behaviour and Evolution

Psychology 2800 - Social Psychology

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:

Management 3205 - Sports Marketing
 Management 3225 - Brand Management
 Management 3230 - Retailing Management
 Management 3240 - Sales Management
 Management 3250 - Social Marketing
 Management 3260 - Not-for-Profit Marketing
 Management 3280 - Services Marketing Management
 Management 3290 - Marketing and Society
 Management 3806 - Small Business Management
 Management 3862 - E-commerce Management
 Management 4215 - Advanced Marketing
 Communications and Social Media
 Management 4220 - Cross-Cultural Marketing

Electives:

Five 3000 or 4000-level electives

Three 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. 71**)

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.

Marketing Communications Concentration

Management 3862 - E-commerce Management
 Management 4215 - Advanced Marketing
 Communications and Social Media

Two of:

Management 3225 - Brand Management
 Management 3980 - Applied Studies/Field
 Experience I (with a marketing
 communications focus)
 Management 3990 - Independent Study (with a
 marketing communications focus)
¹New Media 2005 - Design Fundamentals for
 New Media
¹New Media 2010 - Visual Communications for
 New Media
 New Media 3250 - Media, Advertising, and
 Consumer Culture
 New Media 3700 - Event and Exhibition Design

OR**Socially Responsible Marketing Concentration****Two of:**

²Management 3250 - Social Marketing
²Management 3260 - Not-for-Profit Marketing
²Management 3290 - Marketing and Society

Two of:

²Management 3250 - Social Marketing
²Management 3260 - Not-for-Profit Marketing
²Management 3290 - Marketing and Society
 Management 3552 - Sustainable Tourism

Management 3710 - Managing Not-for-Profit
 Organizations
 Management 3980 - Applied Studies/Field
 Experience I (with a not-for-profit
 organization)
 Management 4580 - Environmental
 Management
³Management 4640 - Cross-Cultural Work
 Study
 New Media 3250 - Media, Advertising, and
 Consumer Culture

¹ 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.

² Students cannot use Management 3250, Management 3260, and Management 3290 to fulfill requirements from both "Two of:" lists.

³ 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.

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.uleth.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 3000/4000 level

Electives:

Three 3000 or 4000-level Management electives

Four 3000 or 4000-level electives

Three 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. 71**)
 Two Science electives chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

One open elective

Note: The Dhillon School of Business has an additional residence requirement of 10 3000 or 4000-level Management courses; an exception applies to Political Science majors who can also use 3000 or 4000-level Political Science courses to meet this requirement.

*A minimum grade of 'C-' is required in these courses to meet degree 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.uleth.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. 281**). Students should consult with an academic advisor and see www.uleth.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. 182**). 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 Statistics 1770; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; all Management courses, including courses cross-listed with Management; 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

Management 2070/Economics 2070 - Operations and Quantitative Management
 Management 3031 - Managing Responsibly in a Global Environment
 Management 3050 - Human Resource Management
 *Management 3650 - Introduction to International Management
 Management 4090 - Management Policy and Strategy
 Statistics 1770 - Introduction to Probability and Statistics

One of:

Writing 1000 - Introduction to Academic Writing
 A university English course

**Students completing the Accounting major are not required to complete Management 3650 or Management 3061*

13. POST-DIPLOMA BACHELOR OF MANAGEMENT MAJORS

a. Accounting

Economics 3030 - Managerial Economics
 Management 3131 - Management Control Systems
 Management 3151 - Introduction to Tax
 Management 3160 - Auditing
 Management 3171 - Accounting Information Systems and Data Analytics
 Management 3180 - Financial Reporting in a Case-Based Environment
 Management 4110 - Advanced Financial Accounting
 Management 4160 - Accounting Theory

One of:

Management 3101 - Intermediate Financial Accounting II
 Management 3190 - Not-for-Profit and Public Sector Accounting and Performance Management
 Management 3470 - Corporate Finance
 Management 4125 - Accounting and Agricultural Enterprises
 Management 4130 - Advanced Managerial Accounting II
 Management 4151 - Advanced Tax

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:

Three 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. 71**)

Note: Refer to **Residence Requirement (p. 182)** for the Accounting residence 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.uleth.ca/ross/ppgs.

b. Finance

Economics 3030 - Managerial Economics
 Mathematics 1510 - Calculus for Management and Social Sciences
 Management 3412 - Fundamentals of Investments
 Management 3470 - Corporate Finance
 Management 4430 - Financial Management

One of:

Management 4421 - Financial Institutions and Markets
 Management 4451 - Derivative Securities Markets

Two of:

Management 3441 - Financial Analysis
 Management 3460 - Global Financial Management

Management 3475 - Agricultural Finance and Markets
 Management 3480 - Personal Finance
 Management 4421 - Financial Institutions and Markets
 Management 4451 - Derivative Securities Markets
 Management 4460 - Trading and Portfolio Management
 Management 4470 and Management 4471 - Student Managed Investment Fund

One of:

Economics 2900 - Economics and Business Statistics
 Statistics 2780 - Statistical Inference

Electives:

Three 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. 71**)

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.uleth.ca/ross/ppgs.

c. General Management

Management 2700 - Business Research Methods
 Five 3000 or 4000 level Management courses

Electives:

Three 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. 71**)

One Social Science elective chosen to ensure completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

Two electives chosen from any list of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**)

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.uleth.ca/ross/ppgs.

d. Human Resource Management and Labour Relations

Management 2700 - Business Research Methods
 Management 3305 - Managing Employee Health and Safety
 Management 3310 - Collective Labour Relations
 Management 3312 - Strategic Compensation
 Management 4305 - Canadian Labour and Employment Law
 Management 4310 - Advanced Organizational Behaviour
 Management 4350 - Staffing
 Management 4355 - Training and Development

One of:

Economics 2900 - Economics and Business Statistics
 Statistics 2780 - Statistical Inference

Electives:

Three 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. 71**)

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.uleth.ca/ross/ppgs.

e. Indigenous Governance and Business Management

Management 2500 - Introduction to Indigenous Governance and Business Management
 Management 3515 - Canadian Indigenous Negotiations
 Management 4570 - Indigenous Leadership and Management

*Indigenous Studies 1000 - Introduction to Indigenous Studies

*Indigenous Studies 2100 - Indigenous Peoples and Law

*Indigenous Studies 2850 - Topics Course (Indigenous Research Methodologies)

One of:

*Indigenous Studies 2230 - Family and First Nations' Community Development

*Economics 3800 - Economic Development

One of Stream A or Stream B:**A. Governance**

Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance

Management 4507/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

Three of:

Management 3522 - Canadian Indigenous Project Management

Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources
 Management 3592 - Applied Indigenous Management Issues (Series)

Management 4508/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments

*Indigenous Studies 2800 - Native American Politics

¹*Political Science 3215 - Indigenous Peoples and Local Government in Canada

Any offering in Management 3850, Management 4850, *Indigenous Studies 3850 or *Indigenous Studies 4850 with an emphasis on Indigenous Governance or Indigenous Law

OR**B. Business Management**

Management 3500/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities

Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

Three of:

- Management 3070 - Introduction to Supply Chain Management
- Management 3225 - Brand Management
- Management 3230 - Retailing Management
- Management 3522 - Canadian Indigenous Project Management
- Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources
- Management 3592 - Applied Indigenous Management Issues (Series)
- Management 3862 - E-commerce Management
- Management 4501 - Canadian Indigenous Tax Issues
- Any offering in Management 3850 or Management 4850 with an emphasis on Indigenous Business Management

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

Notes

¹ 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.

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.uleth.ca/ross/ppgs.

f. International Management

- Management 3640 - Cross-Cultural Management Practices
- Management 4650 - Integrated Global Management

Two of (Global Strategy):

- Management 3070 - Introduction to Supply Chain Management
- Management 3460 - Global Financial Management
- Management 3606 - Managing Innovation and Emerging Markets
- Management 3635 - International Agricultural Trade
- Management 3660/Geography 3225 - Industrial Location and Globalization of Enterprise
- ¹ Management 3685 - Issues in International Management (Series)
- Management 3860 - Law and Institutions of International Trade
- Management 4580 - Environmental Management
- ² Economics 4590 - Economics of Globalization

One of (Cultural Context):

- Management 3665 - Leading in the Globalized Environment
- ¹ Management 3815 - Regional Aspects of International Management (Series)
- Management 4220 - Cross-Cultural Marketing
- Management 4640 - Cross-Cultural Work Study
- ^{2,3} Political Science 2110 - International Relations

One of:

- Geography 1200 - Introduction to Human Geography
- Geography 2000 - World Regional Geography

⁴One Exchange Term:

Two 3000 or 4000 level Management courses

- One open elective
- One language course chosen to meet the Language Requirement

⁵Language Requirement:

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), one on exchange and two at the University of Lethbridge, in one of the following languages: French, Japanese, or Spanish.

Notes:

¹ Students may take up to two Series courses to meet the International Management elective requirements: two offerings in the Management 3685 Series; two offerings in the Management 3815 Series; or one offering from each Series.

² A minimum grade of 'C-' is required in these courses to meet degree requirements.

³ 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.

⁴ 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.

⁵ All language courses completed prior to the exchange must have a minimum grade of 'C-'. In general, a student may not select his or her 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.uleth.ca/ross/ppgs.

g. Marketing

- Management 3210 - Consumer Behaviour
- Management 3215 - Introduction to Marketing Communications and Social Media
- Management 3220 - Marketing Research
- Management 4230 - Marketing Management
- Psychology 1000 - Basic Concepts of Psychology
- Sociology 1000 - Introduction to Sociology

Two of:

- Management 3205 - Sports Marketing
- Management 3225 - Brand Management
- Management 3230 - Retailing Management
- Management 3240 - Sales Management
- Management 3250 - Social Marketing
- Management 3260 - Not-for-Profit Marketing
- Management 3280 - Services Marketing Management
- Management 3290 - Marketing and Society
- Management 3806 - Small Business Management
- Management 3862 - E-commerce Management
- Management 4215 - Advanced Marketing Communications and Social Media
- Management 4220 - Cross-Cultural Marketing

One of:

- Economics 2900 - Economics and Business Statistics
- Statistics 2780 - Statistical Inference

Electives:

Three 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. 71**)

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.

Marketing Communications Concentration

Management 3862 - E-commerce Management
Management 4215 - Advanced Marketing Communications and Social Media

Two of:

- Management 3225 - Brand Management
- Management 3980 - Applied Studies/Field Experience I (with a marketing communications focus)
- Management 3990 - Independent Study (with a marketing communications focus)
- ¹New Media 2005 - Design Fundamentals for New Media
- ¹New Media 2010 - Visual Communications for New Media
- New Media 3250 - Media, Advertising, and Consumer Culture
- New Media 3700 - Event and Exhibition Design

OR**Socially Responsible Marketing Concentration****Two of:**

- ²Management 3250 - Social Marketing
- ²Management 3260 - Not-for-Profit Marketing
- ²Management 3290 - Marketing and Society

Two of:

- ²Management 3250 - Social Marketing
- ²Management 3260 - Not-for-Profit Marketing
- ²Management 3290 - Marketing and Society
- Management 3552 - Sustainable Tourism
- Management 3710 - Managing Not-for-Profit Organizations
- Management 3980 - Applied Studies/Field Experience I (with a not-for-profit organization)
- Management 4580 - Environmental Management
- ³Management 4640 - Cross-Cultural Work Study
- New Media 3250 - Media, Advertising, and Consumer Culture

¹ 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.

² Students cannot use Management 3250, Management 3260, and Management 3290 to fulfill requirements from both "Two of:" lists.

³ 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.

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.uleth.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. 281**). Students should consult with an academic advisor and see www.uleth.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. 189**, 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. 182**). 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 Statistics 1770; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; all Management courses, including courses cross-listed with Management; 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 1000 - Introduction to Management
 Management 2020 - Marketing
 Management 2030 - Introduction to Organizational Behaviour
 Management 2070/Economics 2070 - Operations and Quantitative Management
 Management 2100 - Introductory Accounting
 Management 2400 - Management Accounting
 Management 2700 - Business Research Methods
 Management 3031 - Managing Responsibly in a Global Environment
 Management 3040 - Finance
 Management 3050 - Human Resource Management
 Management 3061 - Information Systems and Management
 Management 3080 - Managerial Skill Development
 Management 3650 - Introduction to International Management
 Management 4090 - Management Policy and Strategy
 Statistics 1770 - Introduction to Probability and Statistics

One of:

Writing 1000 - Introduction to Academic Writing
 A university English course

Two 3000 or 4000-level Management courses

Electives:

Three 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. 71)

Two electives chosen from any list of the Liberal Education List Requirement (see , School of Liberal Education, Liberal Education List Requirement, p. 71)

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.uleth.ca/ross/ppgs.

15. BACHELOR OF MANAGEMENT AS A SECOND DEGREE

Second degree programs consist of the following:

- Core requirements, which include specific Management and Arts and Science courses, and
- Specific Management and Arts and Science courses, which are required for the chosen major.

A minimum of 15 courses, including 10 3000 or 4000-level Management 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. 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. 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.

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. 178**), students must also meet the following requirement in order to be approved for the declaration of a second major:

- I. Students must take one Management course (MGT) 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. 201)**.

18. 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**
 Economics 1010 - Introduction to Microeconomics
 Management 2100 - Introductory Accounting
 Management 2400 - Management Accounting
 Management 3040 - Finance
 Management 3412 - Fundamentals of Investments
 Management 3470 - Corporate Finance
 Management 4430 - Financial Management
 Statistics 1770 - Introduction to Probability and Statistics
- One of:**
 Economics 2900 - Economics and Business Statistics
 Statistics 2780 - Statistical Inference
- One of:**
 Management 3441 - Financial Analysis
 Management 3460 - Global Financial Management
 Management 3475 - Agricultural Finance and Markets
 Management 3480 - Personal Finance
 Management 4421 - Financial Institutions and Markets
 Management 4451 - Derivative Securities Markets
 Management 4460 - Trading and Portfolio Management
 Management 4470 and Management 4471 - Student Managed Investment Fund
- b. General Management Certificate**
 Economics 1010 - Introduction to Microeconomics
 Management 2030 - Introduction to Organizational Behaviour
 Management 2100 - Introductory Accounting
 Management 3031 - Managing Responsibly in a Global Environment
 Management 3050 - Human Resource Management
 Management 3061 - Information Systems and Management
- Any four 3000 or 4000-level courses in Management, which may include either one Management Applied Study or Management Independent Study
- c. Human Resource Management and Labour Relations Certificate**
 Management 1000 - Introduction to Management
 Management 2030 - Introduction to Organizational Behaviour
 Management 2700 - Business Research Methods
 Management 3050 - Human Resource Management
 Management 3305 - Managing Employee Health and Safety
 Management 3310 - Collective Labour Relations
 Management 3312 - Strategic Compensation
 Management 4305 - Canadian Labour and Employment Law
 Management 4350 - Staffing
 Management 4355 - Training and Development
- d. Indigenous Governance and Business Management Certificate**
 Management 1000 - Introduction to Management
 Management 2100 - Introductory Accounting
 Management 2500 - Introduction to Indigenous Governance and Business Management
 Management 3080 - Managerial Skill Development
- One of:**
 Management 2020 - Marketing
 Management 2030 - Introduction to Organizational Behaviour
 Management 3050 - Human Resource Management
- Five of:**
 Management 3500/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities
 Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada
 Management 3515 - Canadian Indigenous Negotiations
 Management 3522 - Canadian Indigenous Project Management
 Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources
 Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance
 Management 3592 - Applied Indigenous Management Issues (Series)
 Management 4507/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments
 Management 4508/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments
 Management 4570 - Indigenous Leadership and Management
- ^{1,*} Political Science 3215 - Indigenous Peoples and Local Government in Canada

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

Notes

¹ 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.

e. International Management Certificate

Economics 1010 - Introduction to Microeconomics
 Management 2070/Economics 2070 - Operations and Quantitative Management
 Management 3070 - Introduction to Supply Chain Management
 Management 3640 - Cross-Cultural Management Practices
 Management 3650 - Introduction to International Management
 Management 4650 - Integrated Global Management
 Statistics 1770 - Introduction to Probability and Statistics

Three of:

- ¹ Management 3460 - Global Financial Management
- Management 3635 - International Agricultural Trade
- ¹ Management 3660/Geography 3225 - Industrial Location and Globalization of Enterprise
- Management 3665 - Leading in the Globalized Environment
- ¹ Management 3670/Political Science 3170 - The Politics of Canadian Trade Policy
- Management 3685 - Issues in International Management (Series)
- Management 3815 - Regional Aspects of International Management (Series)
- Management 3860 - Law and Institutions of International Trade
- ¹ Management 4220 - Cross-Cultural Marketing
- Management 4640 - Cross-Cultural Work Study
- Economics 4590 - Economics of Globalization
- ¹ Political Science 2110 - International Relations

Notes

- ¹ 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

Economics 1010 - Introduction to Microeconomics
 Management 2020 - Marketing
 Management 3210 - Consumer Behaviour
 Management 3215 - Introduction to Marketing Communications and Social Media
 Management 3220 - Marketing Research
 Management 4230 - Marketing Management
 Statistics 1770 - Introduction to Probability and Statistics

Three of:

- Management 3080 - Managerial Skill Development
- Management 3205 - Sports Marketing
- Management 3225 - Brand Management
- Management 3230 - Retailing Management
- Management 3240 - Sales Management
- Management 3250 - Social Marketing
- Management 3260 - Not-for-Profit Marketing
- Management 3280 - Services Marketing Management
- Management 3290 - Marketing and Society
- Management 3806 - Small Business Management
- Management 3862 - E-commerce Management
- Management 4215 - Advanced Marketing Communications and Social Media
- Management 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.

Marketing Communications Concentration

Management 3862 - E-commerce Management
 Management 4215 - Advanced Marketing Communications and Social Media

Two of:

- Management 3225 - Brand Management
- Management 3980 - Applied Studies/Field Experience I (with a marketing communications focus)
- Management 3990 - Independent Study (with a marketing communications focus)
- ¹ New Media 2005 - Design Fundamentals for New Media
- ¹ New Media 2010 - Visual Communications for New Media
- New Media 3250 - Media, Advertising, and Consumer Culture
- New Media 3700 - Event and Exhibition Design

OR**Socially Responsible Marketing Concentration****Two of:**

- ² Management 3250 - Social Marketing
- ² Management 3260 - Not-for-Profit Marketing
- ² Management 3290 - Marketing and Society

Two of:

- ² Management 3250 - Social Marketing
- ² Management 3260 - Not-for-Profit Marketing
- ² Management 3290 - Marketing and Society
- Management 3552 - Sustainable Tourism
- Management 3710 - Managing Not-for-Profit Organizations
- Management 3980 - Applied Studies/Field Experience I (with a not-for-profit organization)
- Management 4580 - Environmental Management
- ³ Management 4640 - Cross-Cultural Work Study
- New Media 3250 - Media, Advertising, and Consumer Culture

- ¹ 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.

- ² Students cannot use Management 3250, Management 3260, and Management 3290 to fulfill requirements from both "Two of:" lists.

- ³ 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).

19. POST-BACHELOR CERTIFICATE IN ACCOUNTING/CHARTERED PROFESSIONAL ACCOUNTANT (CPA) BRIDGING

The Dhillon School of Business offers a 10-course Post-Bachelor Certificate in Accounting for students with an undergraduate degree seeking a Chartered Professional Accountant (CPA) designation or certificate in Accounting.

Please contact an academic advisor before applying to this program for information on course sequencing and possible waivers for equivalent courses already taken. The Post-Bachelor Certificate in Accounting is composed of 10 required courses designed to provide a suitable combination of breadth and depth of knowledge in accounting. Some courses have prerequisite, corequisite, and/or recommended background requirements that are above and beyond the 10 courses in the program. Completion of this program may take more than one year of study. Students are responsible for ensuring they have these necessary requirements. Please contact an academic advisor before applying to this program to discuss your specific program requirements.

Students can earn the certificate by completing the following 10 courses:

Management 3131 - Management Control Systems
 Management 3160 - Auditing
 Management 4110 - Advanced Financial Accounting
 Management 4151 - Advanced Tax

Six of:

Management 2020 - Marketing
 Management 3010 - Business Law
 Management 3040 - Finance
 Management 3100 - Intermediate Financial Accounting I
 Management 3101 - Intermediate Financial Accounting II
 Management 3130 - Cost Accounting
 Management 3151 - Introduction to Tax
 Management 3171 - Accounting Information Systems and Data Analytics
 Management 3180 - Financial Reporting in a Case-Based Environment
 Management 3190 - Not-for-Profit and Public Sector Accounting and Performance Management
 Management 3470 - Corporate Finance
 Management 4090 - Management Policy and Strategy
 Management 4130 - Advanced Managerial Accounting II
 Management 4160 - Accounting Theory

Note: Refer to **Residence Requirement (p. 212)** for the Accounting residence requirement.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all Management courses to meet Post-Bachelor Certificate 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

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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.

Application instructions are online at www.ucalgary.ca/fswsouth.

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 fswsar@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

5. SOUTHERN ALBERTA M.S.W. FOR STUDENTS WITH A B.S.W.

This clinically oriented Master of Social Work (M.S.W.) program prepares students for advanced clinical practice and for the supervision of practitioners.

The program features a flexible delivery model, allowing students to stay in their home communities and to maintain their employment through most or all of the program. The majority of courses will be delivered through a combination of face-to-face and online instruction. A few courses will be delivered entirely face-to-face or online. Four to six short periods of on-campus residency in Lethbridge are required during two years.

Practica will be planned in consultation with each student. Where possible, and desired by students, practica will be arranged in students' home communities.

Courses

Students will be required to complete ten half-courses, as well as 525 hours of field-based practicum (one full-course equivalent). Although a one-year curriculum, this program will be delivered over a two-year period. The program begins in the spring session (May).

All courses are offered in a combination of face-to-face and online instruction.

Students may select a Thesis route with permission of the Faculty. A final project or Thesis is required after completion of all course work.

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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. 19)**.

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. 19)** and www.uleth.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 ("**Education 2500 Prerequisite**" on page 130).
- e. Only courses completed by the admission document deadline will be considered for admission (see www.uleth.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 **Education, Special Case Admission, (p. 126)** 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 **Education, Admission Procedures Available to Students of Indigenous Descent (p. 126)** 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 **Education, Readmission after Withdrawal (p. 127)**.

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 (p. 205)**.

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. 71**).
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 **Arts and Science, Arts and Science Disciplines, p. 79**).

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. 49**.)

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

*Professional Semesters I, II, and III

**One Education Foundation course

Three Education electives

*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.

**The Education Foundation Requirement may be met in the following ways:

1. 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)

2. 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. 71**).
7. Residence requirement: see **page 222** 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

Arts and Science or Fine Arts Major	Education Major
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.uleth.ca/ross/ppgs.

a. Art Education

Students may meet the Art Education major requirements by completing the major in Art.

Required courses:

- Art 2031 - Foundation Studio (Drawing and Image)
- Art 2032 - Foundation Studio (Object and Space)
- Art 3010 - Drawing (Principles and Practices)
- 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 3060 - Media Arts (Introduction to Digital Studio)
- Art 3061 - 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 3005 - Print Media Without a Press OR Art 3006 - Print Media With a Press
- Art 3011 - Drawing (Advanced) OR Art 3160 - Drawing (The Body)
- Art 3022 - Introduction to Painting
- Art 3023 - Painting Studio: Material, Colour, Space OR Art 3024 - Painting Studio: Painting in the Expanded Field
- Art 3026 - Photo-Arts I
- Art 3027 - Photo-Arts II
- Art 3032 - Sculpture I
- Art 3033 - Sculpture II

Notes

Students with an interest in Art Education are also referred to the B.F.A. - Art/B.Ed. (p. 223).

Art/Art Education (B.A./B.Ed.)
Number of courses required for the major..... 13

b. Drama Education

Students may meet the Drama Education major requirements by completing the major in Dramatic Arts.

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
- Drama 3151 - Play Reading and Analysis II
- Drama 4211 - Theories of 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

One of:

- English 3201 - Elizabethan and Jacobean Drama
- English 3602 - Shakespeare
- English 3620 - Modern Drama
- English 3660 - Contemporary Drama

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 B.F.A. - Dramatic Arts/ B.Ed. (p. 225).

Dramatic Arts/Drama Education (B.A./ B.Ed.)

Number of courses required for the major. 15

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

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 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 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
- English 4000 - Seminars in Canadian and Post-Colonial Literature (Series), with an emphasis on Canadian Literature
- Any offering in the English 3700, 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.

English/English Language Arts Education (B.A./B.Ed.)
Number of courses required for the major. 13

2. General Major in the Humanities

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
 - Art - all courses
 - Art History - all courses
 - Cinema - all courses
 - Drama - all courses
 - Museum Studies - all courses
 - Music - all courses
 - Music Studio - all courses
 - New Media - all courses
 - One of French, Japanese, or Spanish
 - Classical Languages
 - Greek - all courses
 - Hebrew - all courses
 - Latin - all courses

- History - all courses
- Indigenous Studies - all courses (includes 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

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. 71**).

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.

General Major in the Humanities/English Language Arts Education (B.A./B.Ed.)
Number of courses required for the major. 16

d. Mathematics Education

Students may meet the Mathematics Education major requirements by completing the major in Mathematics or the General Major in the Sciences.

1. Mathematics

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
- ¹Statistics 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 pairs:
 Mathematics 2570 - Calculus III
 Mathematics 2580 - Calculus IV

OR
 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,
 and Statistics 4980 (Applied Studies)
 and Mathematics 3990,
 Mathematics 4990, Statistics 3990,
 and Statistics 4990 (Independent
 Study)

Notes

¹ One course (3.0 credit hours) in Mathematics at the
 3000/4000 level, excluding Mathematics 3980,
 Mathematics 4980, Statistics 3980, and
 Statistics 4980 (Applied Studies) and
 Mathematics 3990, Mathematics 4990,
 Statistics 3990, and Statistics 4990 (Independent
 Study), may replace Statistics 2780 in the list of
 required courses.

**Mathematics/Mathematics Education
 (B.Sc./B.Ed.)**
**Number of courses required for
 the major..... 13**

2. General Major in the Sciences

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 (including courses in
 Geology)

- 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
- 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. 71**).

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.

**General Major in the Sciences/Mathematics
 Education (B.Sc./B.Ed.)**
**Number of courses required for
 the major..... 16**

e. Modern Languages Education

Students may meet the Modern Languages Education major requirements by completing the major in French or French/Spanish.

I. Modern Languages Education: French

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 1500 - Intermediate Language I
 French 2000 - Intermediate Language II

OR

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 (3.0 credit hours) 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 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 3500 - Survey of French or French-Canadian Literature (Series)
 French 3600 - Literary Genres (Series)

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.uleth.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.

French/Modern Languages Education: French (B.A./B.Ed.)

Number of courses required for the major. 15

2. Modern Languages Education: French/Spanish

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.uleth.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.

French/Spanish/Modern Languages Education: French/Spanish (B.A./B.Ed.)

Number of courses required for the major. 16

f. Music Education

Students may meet the Music Education major requirements by completing the major in Music.

Required courses:

- Music 2080 - Western Art Music
- Music 2090 - The Eighteenth Century
- Music 2160 - Theory I
- ¹ Music 2161 - Musicianship Skills I
- Music 2260 - Theory II
- ¹ Music 2261 - Musicianship Skills II
- Music 3360 - Theory III
- ¹ Music 3361 - Musicianship Skills III
- Music 3460 - Theory IV
- ¹ Music 3461 - Musicianship Skills IV
- Music 3500 - Conducting I

One of:

- Music 3090 - The Medieval Era to the Early Baroque
- Music 3480 - The Nineteenth Century
- Music 3580 - The Twentieth and Twenty-first Centuries

- Music Studio 2148 - Studio I - Instrument
- Music Studio 2248 - Studio II - Instrument
- Music Studio 3348 - Studio III - Instrument
- Music Studio 3448 - Studio IV - Instrument
- Four Music Ensemble Activity courses (6.0 credit hours)

¹ 1.5 credit hours

Note: Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:

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)

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

Notes

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 B.Mus./B.Ed. (p. 230).

Music/Music Education (B.A./B.Ed.)

Number of courses required for the major. 16
(includes four one-half MUSE courses)

g. 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

Required courses:

- Indigenous Studies 1000 - Introduction to Indigenous Studies
- One course (3.0 credit hours) in Blackfoot or Cree

One of (Language and Linguistics):

- Indigenous Studies 1100/
Linguistics 1100 - Language and Culture in Indigenous America
- 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
- Indigenous Studies 2600 - Native American Literature

One of (Culture and History):

- Indigenous Studies 2500 - Indigenous Histories of Canada
- Indigenous Studies 2550 - Indigenous Histories of the United States

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 Sovereignties

One of (Contemporary Issues):

- Indigenous Studies 2400 - Comparative Traditional Indigenous Economies
- 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 school subject minor (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)

Indigenous Studies/Indigenous Education (B.A./B.Ed.)

Number of courses required for the major. 13

2. General Major in the Social Sciences

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 (courses in Geology may not be included)
- 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
- Sociology 2130 - Social Statistics I
- 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 school subject minor (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. 71**).

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.

**General Major in the Social Sciences/
Indigenous Education (B.A./B.Ed.)**

**Number of courses required for
the major..... 16**

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.

I. Kinesiology (B.A.)

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

¹ Physical Activity 2130 - Educational Dance

¹ 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

¹ 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. 71**).

Kinesiology/Physical Education (B.A./B.Ed.)

**Number of courses required for
the major..... 13
(includes two one-half PHAC courses)**

2. Kinesiology (B.Sc.)

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

¹ Physical Activity 2130 - Educational Dance

¹ 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

¹ 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. 71**).

Kinesiology/Physical Education (B.Sc./B.Ed.)

**Number of courses required for
the major..... 16
(includes two one-half PHAC courses)**

3. General Major in the Social Sciences

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 (courses in Geology may not be included)
- 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
- 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. 71**).

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.

**General Major in the Social Sciences/
Physical Education (B.A./B.Ed.)**

Number of courses required for the major. 16

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.

1. Biological Sciences

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)

¹ 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

- 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

¹ 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 **Admission**).
- 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 4210 - Environmental Genomics
- Biology 4700 - Molecular Ecology
- Biology 4740 - Behavioural Ecology
- ¹ Political Science 3260 - Canadian Public Policy or Philosophy 2236 - Environmental Philosophy or ¹ Economics 3220 - Environmental Economics
- ² Biology 3990 - Independent Study or Biology 4990 - Independent Study

Notes

¹ Prerequisite required that is not part of the major.
² 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.

<p>Biological Sciences/Science Education (B.Sc./B.Ed.)</p> <p>Number of courses required for the major. 16</p>
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2. Chemistry

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
- ¹ 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

¹ 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.

Chemistry/Science Education (B.Sc./B.Ed.)

Number of courses required for the major. 15

3. Geography**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 2090 - Biogeography
 Geology 2060 - Physical Geology

One of:

Geography 3710 - Field Techniques in the Earth Sciences
 Geography 3720 - Remote Sensing
 Geography 3740 - Geographical Information Systems

Two of:

Geography 3035 - Fluvial Geomorphology
 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 4415 - Integrated Watershed Management
 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

Geography/Science Education (B.Sc./B.Ed.)

Number of courses required for the major. 16

4. Physics**Required courses:**

Mathematics 1410 - Elementary Linear Algebra
 Mathematics 2570 - Calculus III
 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:

Physics 1000 - Introduction to Physics I
 Physics 1050 - Introduction to Biophysics
¹Engineering 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

¹ Prerequisite required: Engineering 2000

Students wishing to include 3000-level Physics courses in their program must take Mathematics 2580 (Calculus IV) which is a prerequisite for such courses except Physics 3750 and some offerings of the Physics 3900 series.

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.

Physics/Science Education (B.Sc./B.Ed.)

Number of courses required for the major. 16

5. General Major in the Sciences

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 (including courses in Geology)

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

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. 71**).

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.

General Major in the Sciences/Science Education (B.Sc./B.Ed.)

Number of courses required for the major. 16

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

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

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.

**Anthropology/Social Studies Education
(B.A./B.Ed.)**

**Number of courses required for
the major. 16**

2. Canadian Studies

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
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 1500 - Intermediate
Language I
French 2000 - Intermediate
Language II
French 2001 - Intermediate Language
for Immersion Graduates
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 3500 - Survey of French or French-
Canadian Literature (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 3400 - Contemporary
Aboriginal Political Economy
Indigenous Studies 3500 - Indigenous
Treaties in an International Context
Indigenous Studies 4200 - Law and
Indigenous Development in Canada
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 2600 - Native
American Literature
Indigenous Studies 2800 - Native
American Politics

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 3500, 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.

**Canadian Studies/Social Studies Education
(B.A./B.Ed.)**

**Number of courses required for
the major. 16**

3. Economics

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

Economics/Social Studies Education (B.A./B.Ed.)

Number of courses required for the major. 16

4. Geography

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
- 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

Geography/Social Studies Education (B.A./B.Ed.)

Number of courses required for the major. 16

5. History

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
- 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)

History/Social Studies Education (B.A./B.Ed.)

Number of courses required for the major..... 14

6. Political Science

Required courses:

Geography 2600 - Canada
 History 2710 - Canada to 1867
 History 2720 - Canada Since 1867
 Indigenous Studies 1000 - Introduction to Indigenous Studies
 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.

Political Science/Social Studies Education (B.A./B.Ed.)

Number of courses required for the major..... 16

7. Sociology

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

Four additional courses (12.0 credit hours) in Sociology at the 3000/4000 level

Sociology/Social Studies Education (B.A./B.Ed.)

Number of courses required for the major..... 16

8. General Major in the Social Sciences

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 (courses in Geology may not be included)
- 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
- 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
- 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. 71**).

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.

General Major in the Social Sciences/Social Studies Education (B.A./B.Ed.)

Number of courses required for the major. 16

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 **Education, Education Minors (p. 132)** 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 **Education, Education Specializations (p. 136)** 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. 75)** regulations and the **Faculty of Education (p. 123)** 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, 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. 49**).

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 should consult **Admission (p. 19)** 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.

In addition to the general admission requirements outlined in **Admission (p. 19)**, applicants to the Pre-B.F.A. - Art/B.Ed. and B.F.A. - Art/B.Ed. programs must submit a portfolio for consideration by the appropriate decision document deadline (see www.uleth.ca/ross/admissions/undergrad/deadlines). Portfolio requirements are indicated within **Fine Arts, Admission (p. 140)**.

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. Completed portfolio.
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 (**Education 2500 Prerequisite, p. 130**).
- e. Only courses completed by the admission document deadline will be considered for admission (see www.uleth.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 **Education, Special Case Admission (p. 126)** 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 **Education, Admission Procedures Available to Students of Indigenous Descent (p. 126)** 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 **Education, Readmission after Withdrawal (p. 127)**.

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. 71**).
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. 49**).
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. 49**).

7. Required Art, Art History, and Museum Studies Courses:

Note: * = 6.0 credit hours

Art 2031 - Foundation Studio (Drawing and Image)

Art 2032 - Foundation Studio (Object and Space)

Art 3010 - Drawing (Principles and Practices)

*Art 3040 - Advanced Studio (6.0 credit hours)

*Art 4048 - Senior Studio (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 3060 - Media Arts (Introduction to Digital Studio)

Art 3061 - Media Arts (Video Sketchbook)

One of (3.0 credit hours):

Art 3261 - Art NOW

Art 3262 - Art NOW

Art Studio: List I

Two of (6.0 credit hours):

Art 2350/Indigenous Studies 2350 - Indigenous Art Studio

Art 3005 - Print Media Without a Press OR

Art 3006 - Print Media With a Press

Art 3022 - Introduction to Painting

Art 3026 - Photo-Arts I

Art 3032 - Sculpture I

Art Studio: List II

Four of (12.0 credit hours):

Art 3007 - Advanced Print Media

Art 3011 - Drawing (Advanced)

Art 3015 - Art Studio (Series)

Art 3023 - Painting Studio: Material, Colour, Space

Art 3024 - Painting Studio: Painting in the Expanded Field

Art 3027 - Photo-Arts II

Art 3028 - Photo-Arts III

Art 3033 - Sculpture II

Art 3034 - Sculpture III

Art 3035 - Context and Environment

Art 3062 - Media Arts (Advanced Digital Studio)

Art 3160 - Drawing (The Body)

Art 3350/Indigenous Studies 3350 - Indigenous

Art Studio - Advanced

Art History: List A

One of (3.0 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

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
*Professional Semesters I, II and III
**One Education Foundation course
Three Education electives

**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.

***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. 71**).

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.uleth.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. 123)** regulations and **Faculty of Fine Arts (p. 139)** 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 **Education, Education Minors (p. 132)** 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, 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. 49**).

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. 19)** 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. 19)**.

The Pre-B.F.A. — Dramatic Arts/B.Ed. and B.F.A. — Dramatic Arts/B.Ed. accepts applications for fall admission only.

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 (**Education 2500 Prerequisite, p. 130**).
- e. Only courses completed by the admission document deadline will be considered for admission (see www.uleth.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 **Education, Special Case Admission (p. 126)** 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 **Education, Admission Procedures Available to Students of Indigenous Descent (p. 126)** 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 **Education, Readmission after Withdrawal (p. 127)**.

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. 71**).
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. 49**).
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. 49**).

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 3151 - Play Reading and Analysis II

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
 - *Professional Semesters I, II and III
 - **One Education Foundation course
 - Three Education electives

**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.

***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. 71**).

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.uleth.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. 123)** regulations and **Faculty of Fine Arts (p. 139)** 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 **Education, Education Minors (p. 132)** 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, 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. 49**).

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. 19)** 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.

In addition to the general admission requirements outlined in **Admission (p. 19)**, applicants to the Pre-B.F.A. - New Media/B.Ed. and B.F.A. - New Media/B.Ed. programs must submit a portfolio for consideration by the appropriate decision document deadline (see www.uleth.ca/ross/admissions/undergrad/deadlines). Portfolio requirements are indicated within **Fine Arts, Admission (p. 141)**

The Pre-B.F.A. - New Media/B.Ed. and B.F.A. - New Media/B.Ed. accepts applications for fall admission only.

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. Completed portfolio (or essay alternative), and Summary Questionnaire.

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 **Education 2500 Prerequisite, p. 130**).
- e. Only courses completed by the admission document deadline will be considered for admission (see www.uleth.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
- g. Admission Procedures Available to Students of Aboriginal Descent

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 **Education, Special Case Admission (p. 126)** for details.

The Faculty of Education provides two alternative admission opportunities for applicants of Aboriginal descent. See **Education, Admission Procedures Available to Students of Indigenous Descent (p. 126)** 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 **Education, Readmission after Withdrawal (p. 127)**.

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. 71**).
4. Completion of at least eight Cinema and/or 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. 49**).
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. 49**).
7. **Required Courses:**

Art 2031 - Foundation Studio (Drawing and Image)
Art 2032 - Foundation Studio (Object and Space)
Cinema 1000 - Introduction to Cinema Studies
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 - History and Theory of New Media
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 3060 - Media Arts (Introduction to Digital Studio)
Art 3061 - Media Arts (Video Sketchbook)
Cinema 3010 - Cinematography and Lighting
Cinema 4010 - Narrative Production Techniques

Cinema 4420 - Screenwriting
Cinema 4820 - Writing for Comedy
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 4520 - Advanced Web Design
New Media 4830 - Theory and Practice of Motion Capture
Music 2500 - Introduction to Music Technology
Art Studio elective

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 - History of Animation
New Media 3250 - Media, Advertising, and Consumer Culture
New Media 3300 - Theory and Aesthetics of Digital Games
New Media 3560 - Popular Narrative
New Media 3650 - Modern Media, War and Propaganda

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
*Professional Semesters I, II and III
**One Education Foundation course
Three Education electives

**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.

***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. 71**).

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.uleth.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. 123)** regulations and **Faculty of Fine Arts (p. 139)** 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 **Education, Education Minors (p. 132)** 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, 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. 49**).

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. 19)** 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. 19)**, 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.uleth.ca/ross/admissions/undergrad/deadlines). Audition procedures are indicated within **Fine Arts, Admission (p. 142)**.

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 **Education 2500 Prerequisite, p. 130**).
- e. Only courses completed by the admission document deadline will be considered for admission (see www.uleth.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 **Education, Special Case Admission (p. 126)** 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 **Education, Admission Procedures**

Available to Students of Indigenous Descent (p. 126) 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 **Education, Readmission after Withdrawal (p. 127)**.

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. 71**).
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. 49**).
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. 49**).
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

Note: Composition is not available as a Studio area in the B.Mus./B.Ed.

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

Music 2160 - Theory I
*Music 2161 - Musicianship Skills I
Music 2260 - Theory II
*Music 2261 - Musicianship Skills II
Music 3360 - Theory III
*Music 3361 - Musicianship Skills III
Music 3460 - Theory IV
*Music 3461 - Musicianship Skills IV

* 1.5 credit hours.

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))

Note: *Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:*

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)

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

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
 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
 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)

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

*Professional Semesters I, II and III

**One Education Foundation course

***Three Education Electives

*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.

**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.

***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. 71**).

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.uleth.ca/ross/pggs.

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. 123)** regulations and **Faculty of Fine Arts (p. 139)** 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 **Education, Education Minors (p. 132)** 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, 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. 49**).

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. 19)** 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. 19)**, 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
Quantitative Majors: Accounting, Economics, Finance	Mathematics 30-1
Non-Quantitative Majors: 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 Management and non-Management courses. Management 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 Management 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 **Education 2500 Prerequisite, p. 130**).
- e. Only courses completed by the admission document deadline will be considered for admission (see www.uleth.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 **Education, Special Case Admission (p. 126)** 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 **Education, Admission Procedures Available to Students of Indigenous Descent (p. 126)** 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 **Education, Readmission after Withdrawal (p. 127)**.

b. Dhillon School of Business Requirements for the 50-Course B.Mgt./B.Ed.

1. A minimum grade of 'C-' is required in Statistics 1770; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; all Management courses, including those cross-listed with Management; 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 Management courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 182**).
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 1000 - Introduction to Management
Management 2020 - Marketing
Management 2030 - Introduction to Organizational Behaviour
Management 2070/Economics 2070 - Operations and Quantitative Management
Management 2100 - Introductory Accounting
Management 2400 - Management Accounting
Management 2700 - Business Research Methods
Management 3031 - Managing Responsibly in a Global Environment
Management 3040 - Finance
Management 3050 - Human Resource Management
Management 3061 - Information Systems and Management
Management 3080 - Managerial Skill Development
Management 3650 - Introduction to International Management
Management 4090 - Management Policy and Strategy
Statistics 1770 - Introduction to Probability and Statistics
One of:
Writing 1000 - Introduction to Academic Writing
A university English course
Three Management courses at the 3000 or 4000 level
5. Students are advised to take the following courses in their first year: Management 1000; Management 2100; Economics 1010; Economics 1012; Statistics 1770; and Writing 1000 OR a university English course.
6. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**).

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. 49**).
3. Maintenance of 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. 71**).

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.uleth.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. 123)** regulations and **Dhillon School of Business (p. 177)** 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 **Education, Education Minors (p. 132)** 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 **Education, Education Specializations (p. 136)** 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 Management 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, Faculty of Education.

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. 237** for major requirements. Computer Science majors will refer to **Bachelor of Management (B.Mgt.) Majors, p. 183** 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
 - *Professional Semesters I, II and III
 - **One Education Foundation course
 - Three Education electives

**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.

***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.

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. 49**).

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).

Non-Quantitative Majors: All other Management majors	One of: Mathematics 30-1 or Mathematics 30-2
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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. 19)** and www.uleth.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. 19)**, 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
Quantitative Majors: Accounting, Economics, Finance	Mathematics 30-1

3. **Time Limit for Retention of Course Credit**
Students may receive transfer credit for both Management and non-Management courses. Management 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. 71**).
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 Management 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. 49**).

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 **Arts and Science, Arts and Science Disciplines, p. 79**).

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. 49**).

d. Dhillon School of Business Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.

1. A minimum grade of 'C-' is required in Statistics 1770; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; all Management courses, including those cross-listed with Management; and all courses in the major marked with an asterisk (*).

2. A minimum graduation GPA of 2.00 in Management courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 182**).

3. Completion of a minimum of 20 Management courses including all courses required for the Management major and the courses listed below.

Management 1000 - Introduction to Management
 Management 2020 - Marketing
 Management 2030 - Introduction to Organizational Behaviour

**Management 2070/Economics 2070 - Operations and Quantitative Management

Management 2100 - Introductory Accounting
 Management 2400 - Management Accounting
 Management 3031 - Managing Responsibly in a Global Environment

Management 3040 - Finance

Management 3050 - Human Resource Management

*Management 3061 - Information Systems and Management

Management 3080 - Managerial Skill Development

*Management 3650 - Introduction to International Management

Management 4090 - Management Policy and Strategy

**Economics 1010 - Introduction to Microeconomics

**Economics 1012 - Introduction to Macroeconomics

**Statistics 1770 - Introduction to Probability and Statistics

****One of:**

Writing 1000 - Introduction to Academic Writing

A university English course

*Students completing the Accounting major are not required to complete Management 3650 or Management 3061

**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.

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: Management 1000; Management 2100; Economics 1010; Economics 1012; Statistics 1770; Writing 1000 OR a university English course.

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

Students must complete a minimum of 13 courses.

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

Students must complete a minimum of 13 courses.

Required courses:

Art 2031 - Foundation Studio (Drawing and Image)
 Art 2032 - Foundation Studio (Object and Space)
 Art 3010 - Drawing (Principles and Practices)
 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 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

c. Biological Sciences

Students must complete a minimum of 16 courses.

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

¹ 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 1 - Cellular and Molecular 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

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

¹ 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 **Admission**).
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 4210 - Environmental Genomics

Biology 4700 - Molecular Ecology

Biology 4740 - Behavioural Ecology

¹ Political Science 3260 - Canadian Public

Policy or Philosophy 2236 -

Environmental Philosophy or

¹ Economics 3220 - Environmental Economics

² Biology 3990 - Independent Study or

Biology 4990 - Independent Study

Notes

¹ Prerequisite required that is not part of the major.

² 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 **Arts and Science, p. 92**). 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

Students must complete a minimum of 14 courses.

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
¹Engineering 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
²Chemistry 3730 - Physical Chemistry II
 Chemistry 3830 - Inorganic Chemistry I
 Chemistry 3840 - Inorganic Chemistry II

Recommended course:

Biology 1010 - Cellular Basis of Life

Notes

¹ Prerequisite required: Engineering 2000.

² 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

Students must complete a minimum of 11 courses.

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

Students must complete a minimum of 15 courses.

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
 Drama 3151 - Play Reading and Analysis II
 Drama 4211 - Theories of 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

One of:

English 3201 - Elizabethan and Jacobean Drama
English 3602 - Shakespeare
English 3620 - Modern Drama
English 3660 - Contemporary Drama

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

Students must complete a minimum of 14 courses.

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

Students must complete a minimum of 13 courses.

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 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:

- 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 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

Students must complete a minimum of 10 courses.

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 1500 - Intermediate Language I

French 2000 - Intermediate Language II

OR

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 **Arts and Science, French (B.A.), p. 98**).

k. French/Spanish

Students must complete a minimum of 16 courses.

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

Students must complete a minimum of 16 courses.

Required courses:

Four courses (12.0 credit hours) in each of three disciplinary streams chosen from the following list:

English - all courses

Fine Arts

Art - all courses

Art History - all courses

Cinema - all courses

Drama - all courses

Museum Studies - all courses

Music - all courses

Music Studio - all courses

New Media - all courses

One of French, Japanese, or Spanish

Classical Languages

Greek - all courses

Hebrew - all courses

Latin - all courses

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

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. 71**).

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

Students must complete a minimum of 16 courses.

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 (including courses in Geology)
- 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
- 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. 71**).

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

Students must complete a minimum of 16 courses.

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 (courses in Geology may not be included.)
- 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
- 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. 71).

The Quantitative Methods courses have prerequisites which may or may not be included in the major.

o. Geography (B.A. or B.Sc.)

Students must complete a minimum of 11 courses.

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

Students must complete a minimum of 10 courses.

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

Students must complete a minimum of 13 courses.

Required courses:

Indigenous Studies 1000 - Introduction to Indigenous Studies

One course (3.0 credit hours) in Blackfoot or Cree

One of (Language and Linguistics):

Indigenous Studies 1100/Linguistics 1100 - Language and Culture in Indigenous America

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

Indigenous Studies 2600 - Native American Literature

One of (Culture and History):

Indigenous Studies 2500 - Indigenous Histories of Canada

Indigenous Studies 2550 - Indigenous Histories of the United States

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 Sovereignties

One of (Contemporary Issues):

Indigenous Studies 2400 - Comparative Traditional Indigenous Economies

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

r. Kinesiology (B.A.)

Students must complete a minimum of 13 courses.

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. 71**).

s. Kinesiology (B.Sc.)

Students must complete a minimum of 16 courses.

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. 71**).

t. Mathematics

Students must complete a minimum of 13 courses.

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 pairs:

Mathematics 2570 - Calculus III
 Mathematics 2580 - Calculus IV

OR

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

Students must complete a minimum of 16 courses.

Required courses:

Music 2080 - Western Art Music
 Music 2090 - The Eighteenth Century
 Music 2160 - Theory I
¹ Music 2161 - Musicianship Skills I
 Music 2260 - Theory II
¹ Music 2261 - Musicianship Skills II
 Music 2500 - Introduction to Music Technology

Three of:

Music 3030 - Film Music
²Music 3200 - Popular Music (Series)
 Music 3261 - Music in Recital
 Music 3721 - World Music
 Music 3734 - Portfolio and Music Industry
 Music 3850 - Topics in Music

³Seven 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

¹ 1.5 credit hours.

² Only one offering of Music 3200 may count toward the "Three of" list. Additional offerings of Music 3200 may be taken as Music Electives.

³ Music Ensemble Activity courses cannot be used to meet the 3000/4000-level course requirement in the Music major.

v. Philosophy

Students must complete a minimum of 13 courses.

Required courses:**Logic****Two of:**

Logic 1000 - Critical Thinking
 Logic 2003 - Symbolic Logic I
 Logic 3003 - Symbolic Logic II

History of Philosophy**Two of:**

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

Philosophy of Values**One of:**

Philosophy 2001 - Introduction to Ethics
 Philosophy 3401 - Social and Political
 Philosophy
 Philosophy 3410 - Advanced Ethics

One of:

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

Philosophy of Reality**Two of:**

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) at the 4000 level in Philosophy or Logic

Four additional courses (12.0 credit hours) in Philosophy or Logic

w. Physics

Students must complete a minimum of 14 courses.

Required courses:

Mathematics 1410 - Elementary Linear Algebra
 Mathematics 2570 - Calculus III
 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:

Physics 1000 - Introduction to Physics I
 Physics 1050 - Introduction to Biophysics
¹ 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

¹ Engineering 2000 and Mathematics 1565 are prerequisites for Engineering 2060.

Students wishing to include 3000-level Physics courses in their program must take Mathematics 2580 (Calculus IV) which is a prerequisite for such courses except Physics 3750 and some offerings of the Physics 3900 Series.

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

Students must complete a minimum of 13 courses.

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. or B.Sc.)

Students must complete a minimum of 13 courses.

Required courses:

Psychology 1000 - Basic Concepts of Psychology

Psychology 2030 - Methods and Statistics

Four courses (12.0 credit hours) in Psychology or Neuroscience at the 2000 level

Six courses (18.0 credit hours) in Psychology or Neuroscience at the 3000/4000 level

One course (3.0 credit hours) in Psychology at the 4000 level

z. Religious Studies

Students must complete a minimum of 14 courses.

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)

¹One of:

Anthropology 2550 - Anthropology of Religion

Anthropology 3500 - Ritual, Practice, and Performance

Archaeology 3171 - Ancient Israel

Greek 1200 - Elementary Biblical Greek I

Greek 1300 - Elementary Biblical Greek II

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 3510 - Political Thought Before 1500

Political Science 3525 - Politics and Religion

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

²Five 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

¹ Most of the courses in this list have prerequisites that are not part of the major.

² 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.

aa. Sociology

Students must complete a minimum of 10 courses.

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

ab. 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 **Arts and Science, p. 111**). 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.

ac. Women and Gender Studies

Students must complete a minimum of 13 courses.

Required courses:

- Women and Gender Studies 1000 - Knowing Bodies: An Introduction to Women and Gender Studies
- Women and Gender Studies 2300 - Theorizing Women's Lives: Feminist 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. 193**).

- 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 Statistics 1770; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; all Management courses, including courses cross-listed with Management; and all courses in the major marked with an asterisk (*) in order to meet degree requirements.

I. Accounting

Students choosing the Accounting major will be required to complete 23 Management courses for the Management portion of the combined B.A./B.Mgt. and B.Sc./B.Mgt. degrees.

- Economics 3030 - Managerial Economics
- Management 3010 - Business Law
- Management 3100 - Intermediate Financial Accounting I
- Management 3101 - Intermediate Financial Accounting II
- Management 3130 - Cost Accounting
- Management 3131 - Management Control Systems
- Management 3151 - Introduction to Tax
- Management 3160 - Auditing
- Management 3171 - Accounting Information Systems and Data Analytics
- Management 3470 - Corporate Finance
- Management 4110 - Advanced Financial Accounting
- Management 4151 - Advanced Tax
- Management 4160 - Accounting Theory

One of:

- Management 3180 - Financial Reporting in a Case-Based Environment
- Management 3190 - Not-for-Profit and Public Sector Accounting and Performance Management
- Management 4125 - Accounting and Agricultural Enterprises
- Management 4130 - Advanced Managerial Accounting II

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. 252) for the Accounting residence requirement.

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:

Three 3000 or 4000-level Management electives

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

Economics 3030 - Managerial Economics
 Mathematics 1510 - Calculus for Management and Social Sciences
 Management 3412 - Fundamentals of Investments
 Management 3470 - Corporate Finance
 Management 4430 - Financial Management

One of:

Management 4421 - Financial Institutions and Markets
 Management 4451 - Derivative Securities Markets

Two of:

Management 3441 - Financial Analysis
 Management 3460 - Global Financial Management
 Management 3475 - Agricultural Finance and Markets
 Management 3480 - Personal Finance
 Management 4421 - Financial Institutions and Markets
 Management 4451 - Derivative Securities Markets
 Management 4460 - Trading and Portfolio Management
 Management 4470 and Management 4471 - Student Managed Investment Fund

One of:

Economics 2900 - Economics and Business Statistics
 Statistics 2780 - Statistical Inference

Electives:

Two 3000 or 4000-level Management electives

4. General Management

Management 2700 - Business Research Methods

Six 3000 or 4000-level Management courses

Electives:

One 3000 or 4000-level Management elective

5. Human Resource Management and Labour Relations

Management 2700 - Business Research Methods

Management 3305 - Managing Employee Health and Safety

Management 3310 - Collective Labour Relations

Management 3312 - Strategic Compensation

Management 4305 - Canadian Labour and Employment Law

Management 4310 - Advanced Organizational Behaviour

Management 4350 - Staffing

Management 4355 - Training and Development

One of:

Economics 2900 - Economics and Business Statistics
 Statistics 2780 - Statistical Inference

6. Indigenous Governance and Business Management

Management 2500 - Introduction to Indigenous Governance and Business Management

Management 3515 - Canadian Indigenous Negotiations

Management 4570 - Indigenous Leadership and Management

*Indigenous Studies 1000 - Introduction to Indigenous Studies

*Indigenous Studies 2100 - Indigenous Peoples and Law

*Indigenous Studies 2850 - Topics Course (Indigenous Research Methodologies)

One of:

*Indigenous Studies 2230 - Family and First Nations' Community Development

*Economics 3800 - Economic Development

One of Stream A or Stream B:**Stream A: Governance**

Management 3590/Indigenous Studies 3590 - Current Practices

in Canadian Indigenous Governance
 Management 4507/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments
 Three of:
 Management 3522 - Canadian Indigenous Project Management
 Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources
 Management 3592 - Applied Indigenous Management Issues (Series)
 Management 4508/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments
¹*Political Science 3215 - Indigenous Peoples and Local Government in Canada
 Any offering in Management 3850 or Management 4850 with an emphasis on Indigenous Governance or Indigenous Law

OR

Stream B: Business Management

Management 3500/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities
 Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada
 Three of:
 Management 3070 - Introduction to Supply Chain Management
 Management 3225 - Brand Management
 Management 3230 - Retailing Management
 Management 3522 - Canadian Indigenous Project Management
 Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources
 Management 3592 - Applied Indigenous Management Issues (Series)
 Management 3862 - E-commerce Management
 Management 4501 - Canadian Indigenous Tax Issues
 Any offering in Management 3850 or Management 4850

with an emphasis on Indigenous Business Management

¹ 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: In the B.Mgt. Indigenous Governance and Business Management major, all 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 Economics and 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

Management 3640 - Cross-Cultural Management Practices
 Management 4650 - Integrated Global Management

Two of (Global Strategy):

Management 3070 - Introduction to Supply Chain Management
 Management 3460 - Global Financial Management
 Management 3606 - Managing Innovation and Emerging Markets
 Management 3635 - International Agricultural Trade
 Management 3660/Geography 3225 - Industrial Location and Globalization of Enterprise
¹ Management 3685 - Issues in International Management (Series)
 Management 3860 - Law and Institutions of International Trade
 Management 4580 - Environmental Management

² Economics 4590 - Economics of Globalization

One of (Cultural Context):

Management 3665 - Leading in the Globalized Environment
¹ Management 3815 - Regional Aspects of International Management (Series)
 Management 4220 - Cross-Cultural Marketing
 Management 4640 - Cross-Cultural Work Study

^{2,3} Political Science 2110 - International Relations

One of:

Geography 1200 - Introduction to Human Geography
 Geography 2000 - World Regional Geography

⁴One Exchange Term:

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. 71**).

⁵Language Requirement:

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:

One 3000 or 4000-level Management elective

Notes:

¹Students may take up to two Series courses to meet the International Management elective requirements: two offerings in the Management 3685 Series; two offerings in the Management 3815 Series; or one offering from each Series.

²A minimum grade of 'C-' is required in these courses to meet degree requirements.

³Students 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.

⁴Students 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.

⁵All language courses completed prior to the exchange must have a minimum grade of 'C-'. In general, a student may not select his or her native language as the language of study.

8. Marketing

Economics 3030 - Managerial Economics
 Management 3210 - Consumer Behaviour
 Management 3215 - Introduction to Marketing Communications and Social Media
 Management 3220 - Marketing Research
 Management 4230 - Marketing Management
 Psychology 1000 - Basic Concepts of Psychology

Sociology 1000 - Introduction to Sociology

One of:

Psychology 2330 - Learning and Cognition
 Psychology 2700 - Behaviour and Evolution
 Psychology 2800 - Social Psychology
 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:

Management 3205 - Sports Marketing
 Management 3225 - Brand Management
 Management 3230 - Retailing Management
 Management 3240 - Sales Management
 Management 3250 - Social Marketing
 Management 3260 - Not-for-Profit Marketing
 Management 3280 - Services Marketing Management
 Management 3290 - Marketing and Society
 Management 3806 - Small Business Management
 Management 3862 - E-commerce Management
 Management 4215 - Advanced Marketing Communications and Social Media
 Management 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 'Four of' requirement above with the courses in the chosen concentration, listed below.

Marketing Communications Concentration

Management 3862 - E-commerce Management
 Management 4215 - Advanced Marketing Communications and Social Media

Two of:

- Management 3225 - Brand Management
- Management 3980 - Applied Studies/ Field Experience I (with a marketing communications focus)
- Management 3990 - Independent Study (with a marketing communications focus)
- ¹ New Media 2005 - Design Fundamentals for New Media
- ¹ New Media 2010 - Visual Communications for New Media
- New Media 3250 - Media, Advertising, and Consumer Culture
- New Media 3700 - Event and Exhibition Design

OR**Socially Responsible Marketing Concentration****Two of:**

- ² Management 3250 - Social Marketing
- ² Management 3260 - Not-for-Profit Marketing
- ² Management 3290 - Marketing and Society

Two of:

- ² Management 3250 - Social Marketing
- ² Management 3260 - Not-for-Profit Marketing
- ² Management 3290 - Marketing and Society
- Management 3552 - Sustainable Tourism
- Management 3710 - Managing Not-for-Profit Organizations
- Management 3980 - Applied Studies/ Field Experience I (with a not-for-profit organization)
- Management 4580 - Environmental Management
- ³ Management 4640 - Cross-Cultural Work Study
- New Media 3250 - Media, Advertising, and Consumer Culture

¹ 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.

² Students cannot use Management 3250, Management 3260, and Management 3290 to fulfill requirements from both "Two of:" lists.

³ 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:

One 3000 or 4000-level Management elective

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.uleth.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. 75)** regulations and the **Dhillon School of Business (p. 177)** regulations.

h. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge, including 10 Management 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.

Accounting major: 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:

- Management 3100 - Intermediate Financial Accounting I
- Management 3101 - Intermediate Financial Accounting II
- Management 3130 - Cost Accounting
- Management 3131 - Management Control Systems
- Management 3151 - Introduction to Tax
- Management 3160 - Auditing
- Management 3171 - Accounting Information Systems and Data Analytics
- Management 3180 - Financial Reporting in a Case-Based Environment
- Management 3190 - Not-for-Profit and Public Sector Accounting and Performance Management
- Management 4110 - Advanced Financial Accounting
- Management 4125 - Accounting and Agricultural Enterprises
- Management 4130 - Advanced Managerial Accounting II
- Management 4151 - Advanced Tax
- Management 4160 - Accounting Theory

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

All applicants to the B.F.A. - New Media/B.Sc. program must meet the general admission requirements outlined in **Admission (p. 19)**.

In addition, applicants must satisfactorily complete the following requirements:

1. Mathematics 30-I, or equivalent
2. Applicants must submit a portfolio for consideration by the appropriate decision document deadline (see www.uleth.ca/ross/admissions/undergrad/deadlines). Portfolio requirements are indicated within **Faculty of Fine Arts, Admission, p. 140**.

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 Cinema and New Media courses.
3. Completion of the Liberal Education List Requirement (see **School of Liberal Education, Liberal Education List Requirement, p. 71**).
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/or Cinema, and a minimum of seven courses (21.0 credit hours) in Computer Science.

Required Courses:

Art 2031 - Foundation Studio (Drawing and Image)
 Art 2032 - Foundation Studio (Object and Space)
 Cinema 1000 - Introduction to Cinema Studies
 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 - History and Theory of New Media
 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:

Cinema 3010 - Cinematography and Lighting
 Cinema 4010 - Narrative Production Techniques
 Cinema 4420 - Screenwriting
 Cinema 4820 - Writing for Comedy
 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 4520 - Advanced Web Design
 New Media 4830 - Theory and Practice of Motion Capture

One 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 - History of Animation
 New Media 3250 - Media, Advertising, and Consumer Culture
 New Media 3300 - Theory and Aesthetics of Digital Games
 New Media 3560 - Popular Narrative
 New Media 3650 - Modern Media, War and Propaganda

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

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 Cinema and/or 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

To determine if a given course has a Social Science designation, see List II: Social Science Courses (**School of Liberal Education, Liberal Education List Requirement, p. 71**).

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.uleth.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 **Section d.3** (below) 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. 19)** for general admission requirements, policies and deadlines.

In addition to the general admission requirements outlined in **Admission (p. 19)**, all applicants to the B.F.A. - New Media/B.Mgt. must satisfy the following requirements:

I. New Media Portfolio

Applicants to the B.F.A. - New Media/B.Mgt. Combined Degrees program must submit a portfolio by the appropriate decision document deadline (see www.uleth.ca/ross/admissions/undergrad/deadlines). Portfolio requirements are indicated below.

New Media Portfolio Content**Questionnaire**

The questionnaire provides insight to the Department of New Media about an applicant's background, experience, inspirations and goals. For each of the following questions, an applicant should provide an approximately 200-word statement per question:

- Interest: What areas of interest does the applicant have in New Media (examples: graphic design, web design and development, interaction design, 3D modeling, animation, gaming, narrative screen writing, cinema production and studies, historical and contemporary new media theory).
- Background: What is the applicant's background? What fine arts classes and technology experience do they have?
- Goals: What are the applicant's goals when they complete a degree in this field?

10-20 Examples of Work

An applicant must submit examples of 10 to 20 current pieces of their work. The applicant is encouraged to submit works that display variety and the breadth of their experiences. This may be from any of the following areas: art, drama, music and new media. Works may be created inside or outside a formal class setting.

Examples of the type of works an applicant can submit, but are not limited to, include:

- Graphic design, digital drawing, or illustration
- Video, animation, or audio-based work
- Interaction design or website design
- Graphic novel and zine productions
- Digital fabrications (like 3D printing)
- Photography (analogue or digital)
- Drawings, prints, paintings, or murals

- Selections from sketchbooks and journals
- Sculpture, fibre, or ceramic work
- Drama performance/construction/ participation documentation (reviews, photos, programs)
- Music production - a piece of music from any genre produced and recorded by the applicant
- Other creative works

Note: Applicants may submit more than one image of a single work as a PDF if the work is large or complex.

The applicant should include the following information with their work:

- Title
- Year of work
- Technology or equipment used
- Brief description of the work - maximum 50 words (optional)
- Names of any collaborators (if relevant)

750-Word Essay (optional)

If the applicant does not have access to the necessary technology, they can submit an essay instead of providing examples of work (a questionnaire is also required as part of the application).

The applicant will research the term New Media, its many media components, and then write a 750 word essay explaining why they are interested in it, and what it is about their particular background skills and interests that makes the B.F.A. - New Media degree interesting to them. In one of the paragraphs, the applicant shall address the reasons why they decided to submit an essay rather than examples of their work.

Portfolio Review Dates

Portfolio submissions will be reviewed according to the following schedule:

- December 15 - first round
- February 15 - second round
- March 15 - third round
- June 15 - final deadline for submission and final evaluation

Portfolio Submission

Portfolios (or essay alternative) are submitted online at:

ulethbridge.slideroom.com

For more information, visit the Faculty of Fine Arts website at www.uleth.ca/finearts/admissions, contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email finearts.admissions@uleth.ca.

2. Satisfactorily complete the following Alberta high school math course, University of Lethbridge's Mathematics 0500, or equivalent:

Major	Additional Admission Requirement
Quantitative Majors: Accounting, Economics, Finance	Mathematics 30-1

Non-Quantitative Majors: All other Management majors	One of: Mathematics 30-1 or Mathematics 30-2
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3. Applicants are selected for admission to this competitive program based on:
 - a. Completed portfolio (or essay alternative);
 - b. Summary Questionnaire; and
 - c. Academic proficiency, as demonstrated by grade achievement.
4. Time Limit for Retention of Course Credit
Students may receive transfer credit for both Management and non-Management courses. Management 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. 71**).
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. 49**).
3. Residence requirement: see **Residence Requirements and Time Limits, p. 51** 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 (NMED and CINE) taken for credit towards the degree.
3. A minimum of nine Cinema and/or 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. 49**).
5. Completion of the following courses:
Art 2031 - Foundation Studio (Drawing and Image)
Art 2032 - Foundation Studio (Object and Space)
Cinema 1000 - Introduction to Cinema Studies
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 - History and Theory of New Media
 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:

Cinema 3010 - Cinematography and Lighting
 Cinema 4010 - Narrative Production Techniques
 Cinema 4420 - Screenwriting
 Cinema 4820 - Writing for Comedy
 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 4520 - Advanced Web Design
 New Media 4830 - Theory and Practice of Motion Capture

One 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 - History of Animation
 New Media 3250 - Media, Advertising, and Consumer Culture
 New Media 3300 - Theory and Aesthetics of Digital Games
 New Media 3560 - Popular Narrative
 New Media 3650 - Modern Media, War and Propaganda

Two Cinema and/or New Media electives at the 3000/4000 level

Three additional courses from the Faculty of Fine Arts

Two Science electives

Two electives

d. Dhillon School of Business Degree Requirements for the 50-Course B.F.A. - New Media/B.Mgt.

1. A minimum grade of 'C-' is required in Statistics 1770; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; and all Management courses.
2. A minimum graduation GPA of 2.00 in Management courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 182**).

3. Completion of a minimum of 20 Management courses including all courses required for the General Management Major listed below:
 Management 1000 - Introduction to Management
 Management 2020 - Marketing
 Management 2030 - Introduction to Organizational Behaviour
 Management 2070/Economics 2070 - Operations and Quantitative Management
 Management 2100 - Introductory Accounting
 Management 2400 - Management Accounting
 Management 2700 - Business Research Methods
 Management 3031 - Managing Responsibly in a Global Environment
 Management 3040 - Finance
 Management 3050 - Human Resource Management
 Management 3061 - Information Systems and Management
 Management 3080 - Managerial Skill Development
 Management 3650 - Introduction to International Management
 Management 4090 - Management Policy and Strategy

One of:

Writing 1000 - Introduction to Academic Writing
 A university English course

Six 3000 or 4000-level Management courses
 Economics 1010 - Introduction to Microeconomics
 Economics 1012 - Introduction to Macroeconomics
 Statistics 1770 - Introduction to Probability and Statistics

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. 237** for major requirements. Computer Science majors will refer to **Bachelor of Management (B.Mgt.) Majors, p. 183** 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: Economics 1010; Economics 1012; Management 1000; Management 2100, Statistics 1770; and Writing 1000 OR a university English course.

e. 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.F.A. - New Media/B.Mgt, students should be aware of the **Faculty of Fine Arts (p. 139)** regulations and the **Dhillon School of Business (p. 177)** regulations.

f. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge including seven New Media courses and 10 Management 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.uleth.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. 19)**, 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
Quantitative Majors: Accounting, Economics, Finance	Biology 30 English Language Arts 30-1 Chemistry 30 Mathematics 30-1
Non-Quantitative Majors: All other Management majors	Biology 30 Chemistry 30 English Language Arts 30-1 One of: Mathematics 30-1 or Mathematics 30-2

I. 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. 26**), applicants to the

B.H.Sc./B.Mgt. must also meet the Faculty of Health Sciences' Spoken English Language Proficiency (SELP) requirement (see **Health Sciences, Spoken English Language Proficiency Requirement (SELP), p. 170**).

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. 71**).
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 **Exceeding Course Limits, p. 73**).
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 Management 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 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
 Psychology 1000 - Basic Concepts of Psychology
 Psychology 2800 - Social Psychology
 Sociology 1000 - Introduction to Sociology

One of:

Writing 1000 - Introduction to Academic Writing
 A university English course

Electives

One Open elective
 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.

1. A minimum grade of 'C-' is required in Health Sciences 3450/Psychology 3450; Economics 1010 and Economics 1012; Writing 1000 OR a university English course; all Management courses, including those cross-listed with Management; 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 Management courses is required (see **Dhillon School of Business, Graduation GPA Calculation, p. 182**).
3. Completion of a minimum of 20 Management courses including all courses required for the Management major and the courses listed below:
 Management 1000 - Introduction to Management
 Management 2030 - Introduction to Organizational Behaviour
 Management 2070/Economics 2070 - Operations and Quantitative Management
 Management 2100 - Introductory Accounting
 Management 2400 - Management Accounting
 Management 3031 - Managing Responsibly in a Global Environment
 Management 3040 - Finance
 Management 3050 - Human Resource Management
 Management 3061 - Information Systems and Management
 Management 3080 - Managerial Skill Development
 Management 3250 - Social Marketing
 Management 3650 - Introduction to International Management
 Management 4090 - Management Policy and Strategy
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: Economics 1010; Economics 1012; Management 1000; Management 2100; Health Sciences 3450/Psychology 3450; and Writing 1000 OR a university English course.
6. Students may choose a B.Mgt. major in General Management or Human Resource Management and Labour Relations. All specific requirements for a B.Mgt. major must be fulfilled. Total requirements for each B.Mgt. major program follow:

General Management

Six 3000 or 4000-level Management courses

Electives:

One 3000 or 4000-level Management elective

Human Resource Management and Labour Relations

Management 3305 - Managing Employee Health and Safety

Management 3310 - Collective Labour Relations

Management 3312 - Strategic Compensation

Management 4305 - Canadian Labour and Employment Law

Management 4310 - Advanced Organizational Behaviour

Management 4350 - Staffing

Management 4355 - Training and Development

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.

Note: Students should be aware that these are the requirements for the General Management or Human Resource Management and Labour Relations majors 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. 237** for major requirements. Computer Science majors will refer to **Bachelor of Management (B.Mgt.) Majors, p. 183** for course requirements. Agricultural Enterprise Management is only available in the B.Mgt. 40-course degree program.

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.uleth.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. 165)** regulations and the **Dhillon School of Business (p. 177)** 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.Mus./B.Ed. and the Pre-B.F.A. – Dramatic Arts/B.Ed. programs for the fall term only. Applications are accepted for the Pre-B.F.A. - Art program for both fall and spring terms. Applicants should consult **Admission (p. 19)** 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.uleth.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. The appropriate portfolio or audition for the program by the appropriate decision document deadline. Details are provided below.

Portfolio/Audition Content

Art

See Art Portfolio instructions in **Fine Arts, Bachelor of Fine Arts - Art, p. 140**. Portfolio requirements are also available at:

www.uleth.ca/finearts/admissions

Dramatic Art

Materials representative of 10-20 recent theatre experiences as a performer, designer, or technician. Examples include: list of productions, roles, reviews, photographs, programs, and/or video.

Portfolio requirements are also available at:

www.uleth.ca/finearts/admissions

Music

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.uleth.ca/finearts/admissions

Also see **Fine Arts, Bachelor of Music, Music Major, p. 142**.

Portfolio Submission

Portfolios are submitted online at:

ulethbridge.slideroom.com

For more information, visit the Faculty of Fine Arts website at www.uleth.ca/finearts/admissions, contact the Faculty of Fine Arts Admissions and Portfolio Advisor at 403-380-1864, or email finearts.admissions@uleth.ca.

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 **Education, Education 2500 Prerequisite, p. 130**).

- 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 **Education, Special Case Admission (p. 126)** 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 **Education, Admission Procedures Available to Students of Indigenous Descent (p. 126)** 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 **Education, Readmission after Withdrawal (p. 127)**.

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. 71):

- 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. 49**).
 6. The entire program must be approved in advance by an academic advisor in the Faculty of Fine Arts.

Required Art, Art History and Museum Studies Courses:

Note: * = 6.0 credit hours

Art 2031 - Foundation Studio (Drawing and Image)
 Art 2032 - Foundation Studio (Object and Space)
 Art 3010 - Drawing (Principles and Practices)
 *Art 3040 - Advanced Studio (6.0 credit hours)
 *Art 4048 - Senior Studio (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 3060 - Media Arts (Introduction to Digital Studio)
 Art 3061 - Media Arts (Video Sketchbook)

One of (3.0 credit hours):

Art 3261 - Art NOW
 Art 3262 - Art NOW

Art Studio: List I

Two of (6.0 credit hours):

Art 2350/Indigenous Studies 2350 - Indigenous Art Studio
 Art 3005 - Print Media Without a Press
 Art 3022 - Introduction to Painting
 Art 3026 - Photo-Arts I
 Art 3032 - Sculpture I

Art Studio: List II

Four of (12.0 credit hours):

Art 3007 - Advanced Print Media
 Art 3011 - Drawing (Advanced)
 Art 3015 - Art Studio (Series)
 Art 3023 - Painting Studio: Material, Colour, Space
 Art 3024 - Painting Studio: Painting in the Expanded Field
 Art 3027 - Photo-Arts II
 Art 3028 - Photo-Arts III
 Art 3033 - Sculpture II
 Art 3034 - Sculpture III
 Art 3035 - Context and Environment
 Art 3062 - Media Arts (Advanced Digital Studio)
 Art 3160 - Drawing (The Body)
 Art 3350/Indigenous Studies 3350 - Indigenous Art Studio - Advanced

Art History: List A**One of (3.0 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

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 3151 - Play Reading and Analysis II

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

Note: *Composition is not available as a Studio area in the B.Mus./B.Ed.*

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

- Music 2160 - Theory I
- *Music 2161 - Musicianship Skills I
- Music 2260 - Theory II
- *Music 2261 - Musicianship Skills II
- Music 3360 - Theory III
- *Music 3361 - Musicianship Skills III
- Music 3460 - Theory IV
- *Music 3461 - Musicianship Skills IV

* 1.5 credit hours.

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))

Note: *Music Ensemble Activity participation is determined by the focus of the Music major and must be fulfilled as follows:*

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 245 I, Music Ensemble Activity 3450, Music Ensemble Activity 345 I, 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)

Not more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given term.

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
 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
 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)

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. 71**).

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
 - *Professional Semesters I, II and III
 - **One Education Foundation course
 - ***Three Education Electives

**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.

***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.

****The three Education electives for Post-Diploma B.Mus./B.Ed. students must consist of:*

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

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

d. 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.uleth.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** regulations and **Faculty of Fine Arts** 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 **Education, Education Minors (p. 132)** 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, 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. 49**).

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** (for general admission requirements, policies, and deadlines).

1. 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.uleth.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 **Education, Education 2500 Prerequisite, p. 130**).
- 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 Management 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 **Education, Special Case Admission (p. 126)** 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 **Education, Admission Procedures Available to Students of Indigenous Descent (p. 126)** 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 **Education, Readmission after Withdrawal (p. 127)**.

b. Dhillon School of Business Requirements for the 35-Course (105.0 credit hours) Post-Diploma B.Mgt./B.Ed.

1. A minimum grade of 'C-' is required in Statistics 1770; Writing 1000 OR a university English course; all Management courses, including those cross-listed with Management; 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. 182**).
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:

Management 2070/Economics 2070 - Operations and Quantitative Management

Management 2700 - Business Research Methods

Management 3031 - Managing Responsibly in a Global Environment

Management 3050 - Human Resource Management

Management 3061 - Information Systems and Management

Management 3650 - Introduction to International Management

Management 4090 - Management Policy and Strategy

Statistics 1770 - Introduction to Probability and Statistics

One of:

Writing 1000 - Introduction to Academic Writing

A university English course

Electives:

Three Management courses at the 3000 or 4000 level

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 35 courses (see **Dhillon School of Business, Post-Diploma Bachelor of Management Majors, p. 189** 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. 71**) as follows:
 - Three courses from List I: Fine Arts and Humanities Courses (includes Writing 1000 OR a university English course from above);
 - Two courses from List II: Social Science Courses (includes Management 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
 - *Professional Semesters I, II and III
 - **One Education Foundation course
 - Three Education electives

**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.

***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. 71**).

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.uleth.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** regulations and **Dhillon School of Business** 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 **Education, Education Minors (p. 132)** 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 **Education, Education Specializations (p. 136)** 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 Management 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, 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).

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1. 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 **Education Minors (p. 132)**.
- b. Completing a minor may extend program duration (see **Academic Regulations, Policies, and Program Requirements, Residence Requirements and Time Limits, p. 51**). 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

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:

Management 2100 - Introductory Accounting

Management 2400 - Management Accounting

Management 3040 - Finance

Management 3100 - Intermediate Financial Accounting I

Statistics 1770 - Introduction to Probability and Statistics

One of:

Management 3130 - Cost Accounting

Management 3151 - Introduction to Tax

Note: Any course required by a student's program must be substituted by an additional elective from the list below:

Management 3101 - Intermediate Financial Accounting II

Management 3130 - Cost Accounting

Management 3131 - Management Control Systems

Management 3151 - Introduction to Tax

Management 3160 - Auditing

Management 3171 - Accounting Information Systems and Data Analytics

Management 3180 - Financial Reporting in a Case-Based Environment

Management 4110 - Advanced Financial Accounting

Management 4130 - Advanced Managerial Accounting II

Management 4151 - Advanced Tax

Management 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:

Management 2600 - Introduction to Agricultural Enterprise Management
Management 3070 - Introduction to Supply Chain Management
Management 3275 - Agricultural Marketing and Sales
Management 3475 - Agricultural Finance and Markets

Two of:

Management 3031 - Managing Responsibly in a Global Environment
Management 3612 - Innovation and Entrepreneurship
Management 3622 - Visual Analytics
Management 3625 - Canadian and World Agriculture
Management 3806 - Small Business Management
Management 4125 - Accounting and Agricultural Enterprises
Management 4625 - Issues in Agricultural Business

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 2031 - Foundation Studio (Drawing and Image)
Art 2032 - Foundation Studio (Object and Space)

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 3061 - Media Arts (Video Sketchbook)
 Cinema 3000 - Contemporary American Cinema
 Cinema 3001 - Film Authorship
 Cinema 3010 - Cinematography and Lighting
 Cinema 3110/New Media 3110 - Postproduction and Visual Effects
 Cinema 3201 - Documentary Film Studies
 Cinema 3202 - Film Noir and Crime Cinema
 Cinema 3203 - Film Comedy
 Cinema 3550 - History of Animation
 Cinema 4010 - Narrative Production Techniques
 Cinema 4420 - Screenwriting
 Cinema 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:

Management 3406 - Entrepreneurial Finance
 Management 3801 - New Venture Start-Ups
 Management 3806 - Small Business Management
 Management 3816 - Venture Growth
 Management 4806 - Venture Diagnostics

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. 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.

q. 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.

r. 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 3500/Management 3825 - Information in Health Care
 Health Sciences 3510 - Program Planning and Evaluation
 Health Sciences 3800 - Teaching and Learning for Health Professions
 Management 2030 - Introduction to Organizational Behaviour
 Management 3050 - Human Resource Management
 Management 3080 - Managerial Skill Development
 Management 3315 - Diversity in Employment
 Management 4370 - Leadership in Organizations

s. 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.

t. Indigenous Business Management

Not available to Indigenous Governance and Business Management majors.

Required Courses:

Management 2500 - Introduction to Indigenous Governance and Business Management

Management 3500/Indigenous Studies 3250 - Financial Management in Canadian Indigenous Communities

Management 3506/Indigenous Studies 3506 - Indigenous Business and Entrepreneurship in Canada

Management 3515 - Canadian Indigenous Negotiations

Management 3522 - Canadian Indigenous Project Management

One of:

Management 3070 - Introduction to Supply Chain Management

Management 3225 - Brand Management

Management 3230 - Retailing Management

Management 3580/Indigenous Studies 3280 -

Indigenous Peoples and Natural Resources

Management 3592 - Applied Indigenous Management Issues (Series)

Management 3862 - E-commerce Management

Management 4501 - Canadian Indigenous Tax Issues

Any offering in Management 3850 or

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.

u. Indigenous Governance

Not available to Indigenous Governance and Business Management majors.

Required Courses:

Management 2500 - Introduction to Indigenous Governance and Business Management

Management 3515 - Canadian Indigenous Negotiations

Management 3522 - Canadian Indigenous Project Management

Management 3590/Indigenous Studies 3590 - Current Practices in Canadian Indigenous Governance

Management 4570 - Indigenous Leadership and Management

One of:

Management 3580/Indigenous Studies 3280 - Indigenous Peoples and Natural Resources

Management 3592 - Applied Indigenous Management Issues (Series)

Management 4507/Indigenous Studies 4120 - Historical and Legal Aspects of Canadian Indigenous Governments

Management 4508/Indigenous Studies 4150 - Administrative Aspects of Canadian Indigenous Governments

Indigenous Studies 2800 - Native American Politics

Indigenous Studies 4200 - Law and Indigenous Development in Canada

^{1,*}Political Science 3215 - Indigenous Peoples and Local Government in Canada

Any offering in Management 3850,

Management 4850, Indigenous Studies 3850 or Indigenous Studies 4850 with an emphasis on Indigenous Governance

Notes:

¹ 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.

v. 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.

w. International Management

Not available to International Management majors.

Required Courses:

Management 3640 - Cross-Cultural Management Practices
 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 Management 4640 - Cross-Cultural Work Study 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):

Management 3460 - Global Financial Management
 Management 3606 - Managing Innovation and Emerging Markets
 Management 3635 - International Agricultural Trade
 Management 3660/Geography 3225 - Industrial Location and Globalization of Enterprise
 Management 3665 - Leading in the Globalized Environment

Management 3685 - Issues in International Management (Series)

Management 3815 - Regional Aspects of International Management (Series)

Management 3860 - Law and Institutions of International Trade

Management 4580 - Environmental Management

Management 4640 - Cross-Cultural Work Study

Management 4650 - Integrated Global Management

Economics 4590 - Economics of Globalization

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.

x. 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

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.

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.

y. 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.

z. 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
 Greek 1300 - Elementary Biblical Greek 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.

aa. Marketing

Not available to Marketing majors.

Required Courses:

Management 2020 - Marketing
 Management 3210 - Consumer Behaviour
 Management 3215 - Introduction to Marketing Communications and Social Media

Three of:

Management 3205 - Sports Marketing
 Management 3225 - Brand Management
 Management 3230 - Retailing Management
 Management 3240 - Sales Management
 Management 3250 - Social Marketing
 Management 3260 - Not-for-Profit Marketing
 Management 3280 - Services Marketing Management
 Management 3290 - Marketing and Society
 Management 3806 - Small Business Management
 Management 3862 - E-commerce Management
 Management 4215 - Advanced Marketing Communications and Social Media
 Management 4220 - Cross-Cultural Marketing

Note: Any course required by a student's program must be substituted by an additional elective from the list above.

ab. 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.

ac. Mental Health**Six of:**

Addictions Counselling 3150 - Adult Psychopathology
 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 3570/Psychology 3570 - Contemporary Issues in Mental Health
 Health Sciences 3760 - DSM Interventions
 Health Sciences 3860 - Men's Health
 Public Health 3000 - Canadian and Global Perspectives
 Public Health 3420 - Public Health Ethics

ad. 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

ae. 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.*

af. 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 2600 - Brain and Behaviour

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

Two additional courses (6.0 credit hours) in Neuroscience

ag. New Media

Not available to New Media majors.

Required courses:

Six courses in New Media including at least two at the 3000/4000 level.

ah. New Media Studies

Not available to New Media majors.

Required courses:

New Media 1000 - Introduction to New Media

New Media 2150 - History and Theory of New Media

New Media 3150 - Seminar in New Media Studies

Three of:

Cinema 3550 - History of Animation

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 3560 - Popular Narrative

New Media 3650 - Modern Media, War and Propaganda

ai. 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.

aj. 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 1050) or two substitution courses (in place of Physics 1000 or 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

ak. 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.

al. 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

am. 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.

an. 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.

ao. 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.

ap. Supply Chain and Operations Management**Required Courses:**

Management 3070 - Introduction to Supply Chain Management
 Management 3075 - Operations Modelling with Spreadsheets
 Management 3920 - Project Management

One of:

Management 3775 - Quality Management
 Management 4075 - Advanced Supply Chain Management
 Management 4775 - Seminars on Supply Chain and Operations Management Issues (Series)

Two of:

Economics 2750 - Quantitative Methods in Economics

Management 2070/Economics 2070 - Operations and Quantitative Management
 Management 3010 - Business Law
 Management 3660/Geography 3225 - Industrial Location and Globalization of Enterprise
 Management 3775 - Quality Management
 Management 3862 - E-commerce Management
 Management 4075 - Advanced Supply Chain Management
 Management 4775 - Seminars on Supply Chain and Operations Management Issues (Series)

Note: Any course required by a student's program must be substituted by an additional elective from the list above.

aq. 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

ar. 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
 Drama 3151 - Play Reading and Analysis II

as. 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 - Knowing Bodies: An Introduction to Women and Gender Studies
 Women and Gender Studies 2300 - Theorizing Women's Lives: Feminist 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

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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; 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; www.ulethbridge.ca/career-bridge).

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 handbook/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), or 70% for direct entry from high school.

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).

c. Successful completion of co-op admission workshops and personal intake interview.

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.

Co-op internships are also available and are 12-16 months in duration at a single workplace. Co-op internships are usually taken by students in the third or fourth year of their program.

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 for specific details. For more information on campus, please visit the International Centre (SU060) or the Career Bridge office (AH151).*

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. 46**). 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.

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Note: The courses listed in this part of the Calendar are undergraduate-level courses. Graduate-level courses are available to students admitted to graduate programs and available to other students only with Faculty/School permission. For a complete listing of graduate-level courses, see the University of Lethbridge Graduate Studies Calendar and Course Catalogue or visit www.uleth.ca/ross/courses.

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 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.uleth.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. 487**). 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. 277**.

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. 49**).

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, p. 80**; **Faculty of Education, p. 132**; **Faculty of Fine Arts, p. 146**; **Faculty of Health Sciences, p. 170**; and **Dhillon School of Business, p. 181**).

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. 49**).

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. 49**).

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 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. 282**).

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. 49)**.

Special regulations apply to Topics and Series courses (see **Series, p. 282** and **Topics, p. 282**).

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), 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.

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. 30**), all students are bound by the current Calendar with regard to prerequisites, corequisites, 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. 49**).

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. 49**).

8. 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.

9. Grading

Grading indicates what type of grade will be awarded as defined in **Academic Regulations (p. 45)**. 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. 39)**.

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.uleth.ca/ross/timetable) or log into the Bridge Student Menu to look up and register in courses (bridge.uleth.ca).

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

See examples bottom of **page 285**.

See also Additional Prerequisite(s)/Corequisite(s)/Recommended Background examples top of **page 285**.

ADDITIONAL PREREQUISITE(S)/COREQUISITE(S)/RECOMMENDED BACKGROUND EXAMPLES

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' (see Example 1 below).

When a student must complete one course chosen from a list, the items are normally preceded by 'One of' (see Physics 1000 example below).

When a student may satisfy the prerequisite(s)/corequisite(s) by alternate methods, the alternatives are normally separated by 'OR' (see Example 2 below).

EXAMPLE 1

Prerequisite(s): *Biochemistry 2000 AND Chemistry 2600*
 Corequisite(s): *Chemistry 2740*

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.

To meet the corequisite, students must complete or have previously completed Chemistry 2740.

EXAMPLE 2

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.

Indicates introductory course level

Subject and course number → **PHYSICS 1000**

Course title → **Introduction to Physics I**

Weighting factor of the course. See Credit Hours on page 283. → *Credit hours: 3.00*

Course description → *Contact hours per week: 3-3-0*
Other hours per term: 0-0-6

Preliminary requirement which must be met or waived before course can be taken. To meet the prerequisite requirements for Physics 1000, students must have completed Physics 30 AND One of Mathematics 30-1, Pure Mathematics 30, Mathematics 0500, or Mathematics 0520. See Prerequisite(s), Corequisite(s), Recommended Background, and Other Registration Restrictions on page 283. → *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 30-1, 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 1000 is substantially similar to Physics 1050. See Substantially Similar on page 284.

Physics 1000 is designated as a Science course for the purposes of meeting the Liberal Education List Requirement. For details, see School of Liberal Education, Liberal Education List Requirement, on page 71.

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)
 * Studio courses are identified as such in the offering note for the course.

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., field trip, rehearsal)
 * Studio courses are identified as such in the offering note for the course.

One of Mathematics 1560 or Mathematics 1565 is a corequisite for Physics 1000. See Prerequisite(s), Corequisite(s), Recommended Background, and Other Registration Restrictions on page 283.

Subject and course number → **SPANISH 2100**

Course title → **Fundamentals of Spanish Communication**

Weighting factor of the course. See Credit Hours on page 283. → *Credit hours: 3.00*

Course description → *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.

Spanish 2100 is equivalent to the 'Fundamentals of Spanish Communication' offering in the Spanish 2850 Topics Course, which was discontinued effective May 1, 2015. See Equivalent on page 284 and Topics on page 282. → *Prerequisite(s): Spanish 1100*

→ *Equivalent: Spanish 2850 (Fundamentals of Spanish Communication) (prior to 2015/2016)*

→ *Lib Ed Req: Fine Arts and Humanities*

→ *Note: Not for native or heritage speakers or for students with intermediate or advance oral fluency.*

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)
 * Studio courses are identified as such in the offering note for the course.

Preliminary requirement that must be met or waived before course can be taken. To meet the prerequisite requirements for Spanish 2100, students must have completed Spanish 1100. See Prerequisite(s), Corequisite(s), Recommended Background, and Other Registration Restrictions on page 283.

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

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.

Equivalent: Health Sciences 1000 (prior to 2014/2015)

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

Equivalent: Health Sciences 1020 (prior to 2014/2015)

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 Psychology 1000 AND Admission to the B.H.Sc. program with a major in Addictions Counselling

Equivalent: Health Sciences 1220 (prior to 2014/2015)

ADDICTIONS COUNSELLING 2120
Counselling II (Group Counselling)

Credit hours: 3.00

Contact hours per week: 3-4-0

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

Equivalent: Health Sciences 2120 (prior to 2014/2015)

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**First Nations Counselling***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)

Equivalent: Health Sciences 2245 (prior to 2014/2015)

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)

Equivalent: Health Sciences 3002 (prior to 2014/2015)

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: Health Sciences 2050 (prior to 2014/2015);

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: 3-4-0*

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)

Equivalent: Health Sciences 3120 (prior to 2014/2015)

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)

Equivalent: Health Sciences 3130 (prior to 2014/2015)

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

Equivalent: Health Sciences 3140 (prior to 2014/2015)

ADDICTIONS COUNSELLING 3150**Adult Psychopathology***Credit hours: 3.00**Contact hours per week: 3-0-0*

A detailed examination of the assessment, causes and treatment of adult mental health disorders.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) in the Faculty of Health Sciences

Equivalent: Health Sciences 3150 (prior to 2014/2015)

Substantially Similar:

Psychology 2505;

Health Sciences 3150

**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*

*Equivalent: Health Sciences 3240 (prior to
2014/2015)*

**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*

*Equivalent: Health Sciences 3260 (prior to
2014/2015)*

*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*

*Equivalent: Health Sciences 3420 (prior to
2014/2015)*

*Substantially Similar:
Public Health 3420*

**ADDICTIONS COUNSELLING 3729
Studies in Specific Addictive
Disorders (Series)**

Credit hours: 3.00

Contact hours per week: 3-0-0

In-depth study of the issues and interventions relevant to particular addictions.

*Prerequisite(s): Third-year standing (a
minimum of 60.0 credit hours)
in the Faculty of Health
Sciences*

*Equivalent: Health Sciences 3749 (prior to
2014/2015)*

**ADDICTIONS COUNSELLING 3739
Addictions in Particular Populations
(Series)**

Credit hours: 3.00

Contact hours per week: 3-0-0

In-depth study of the issues and interventions relevant to particular population groups.

*Prerequisite(s): Third-year standing (a
minimum of 60.0 credit hours)
in the Faculty of Health
Sciences*

*Equivalent: Health Sciences 3759 (prior to
2014/2015)*

**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 2050
AND
Addictions Counselling 3120
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*

*Equivalent: Health Sciences 4050 (prior to
2014/2015)*

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)*

*Equivalent: Health Sciences 4200 (prior to
2014/2015)*

**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 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

Equivalent: Anthropology 3550 (prior to 2015/2016)

*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

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 and field analysis of archaeological remains such as lithics, ceramics and architecture; techniques of conservation and restoration.

Prerequisite(s): One of Archaeology 1000 or a previous course (3.0 credit hours) in Archaeology

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 2002****Fundamentals of Painting**

Credit hours: 3.00

Contact hours per week: 5-0-0 or 6-0-0

An introduction to the theory and practice in painting and related media.

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

Credit is not allowed for Art 2002 subsequent to the completion of Art 3022. For sections where Art 2002 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 2004**Fundamentals of Photography**

Credit hours: 3.00

Contact hours per week: 5-0-0 or 6-0-0

An introduction to the theory and practice in camera and darkroom techniques for black and white photography.

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

Credit is not allowed for Art 2004 subsequent to the completion of Art 3026. Access to a camera is required. Contact instructor for specifics. For sections where Art 2004 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 2030**Combined Foundation Studio**

Credit hours: 6.00

Contact hours per week: 10-0-0

An introduction to art studio practices. Art 2030 combines the content of both Art 2031 - Foundation Studio (Drawing and Image) and Art 2032 - Foundation Studio (Object and Space), and fulfills the prerequisite for further Art (Studio) courses.

Substantially Similar:

Art 2031;

Art 2032

Lib Ed Req: Fine Arts and Humanities

Note: *Studio course.*

ART 2031**Foundation Studio (Drawing and Image)**

Credit hours: 3.00

*Contact hours per week: 5-0-0 or
6-0-0*

An introduction to contemporary art studio practice with an emphasis on drawing and visual analysis. A cross-section of ideas, materials and processes will be introduced as they relate to drawing, image production and related practices.

Substantially Similar:

Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: *Studio course.*

For sections where Art 2031 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 2032**Foundation Studio (Object and Space)**

Credit hours: 3.00

*Contact hours per week: 5-0-0 or
6-0-0*

An introduction to contemporary art studio practice with an emphasis on the three-dimensional work. A cross-section of ideas, materials and processes will be introduced as they relate to objects, space and time-based media.

Substantially Similar:

Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: *Studio course.*

For sections where Art 2032 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 2350/INDIGENOUS STUDIES 2350**Indigenous Art Studio**

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, theory, 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 3005**Print Media Without a Press**

Credit hours: 3.00

*Contact hours per week: 5-0-0 or
6-0-0*

An introduction to the concepts and processes of printmaking without a press. Topics may include woodblock, linocut, and silkscreen.

Prerequisite(s): One of [Art 2031 and Art 2032] or Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: *Studio course.*

For sections where Art 3005 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3006**Print Media With a Press**

Credit hours: 3.00

*Contact hours per week: 5-0-0 or
6-0-0*

An introduction to the concepts and processes of printmaking with a press. Topics may include monotype, pouchoir (stencil), intaglio, and silkscreen.

Prerequisite(s): One of [Art 2031 and Art 2032] or Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: *Studio course.*

For sections where Art 3006 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3007**Advanced Print Media**

Credit hours: 3.00

*Contact hours per week: 5-0-0 or
6-0-0*

Studies in printmaking at an advanced level in which a range of approaches and techniques are explored: traditional, experimental and interdisciplinary.

Prerequisite(s): One of Art 3005 or Art 3006

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 (Principles and Practices)**

Credit hours: 3.00

*Contact hours per week: 5-0-0 or
6-0-0*

Explorations in drawing using a variety of media and methods to examine basic visual principles and structures. Development of observational and analytical skills.

Prerequisite(s): One of [Art 2031 and Art 2032] or Art 2030

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 (Advanced)**

Credit hours: 3.00

*Contact hours per week: 5-0-0 or
6-0-0*

Advanced theory and practice in drawing with an emphasis on experimental techniques and methods.

Prerequisite(s): Art 3010

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

Studio offerings at an advanced level addressing thematically presented approaches to material practice. Offerings may include: Installation Art, Digital Fabrication, Performance Art, Expanded Print Media.

Prerequisite(s): One of Art 3005, Art 3006, Art 3010, Art 3023, Art 3027, Art 3033, Art 3060, or Art 3061

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 3022**Introduction to Painting**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

An introduction to various technical, aesthetic, and theoretical issues of painting with an emphasis on contemporary practice. Diverse approaches and media will be investigated.

Prerequisite(s): One of [Art 2031 and Art 2032] or Art 2030

Corequisite(s): Art 3010

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

For sections where Art 3022 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3023**Painting Studio: Material, Colour, Space**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

Theory and practice of painting with an emphasis on working in oil paint. Topics may include advanced investigation of colour theory, pictorial space, composition, and content development.

Prerequisite(s): Art 3022

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: Painting in the Expanded Field**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

Using both traditional and non-traditional materials and methods, this course focuses on alternative ways of making and thinking about painting. Theory and practice of painting are explored in the context of contemporary art. Topics may include painting installation and painting as it extends to other media such as textiles, photography and sculpture.

Prerequisite(s): Art 3022

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 3026**Photo-Arts I**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

An introduction to the theory and practice of photo-arts. The camera, black and white darkroom processes, and introductory digital photography are explored within a context of contemporary art practice.

Prerequisite(s): One of [Art 2031 and Art 2032], Art 2030, or third-year standing (a minimum of 60.0 credit hours)

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

SLR film cameras can be rented for a small fee. Access to a digital camera is recommended. Contact instructor for specifics. Students will be required to purchase lab supplies. For sections where Art 3026 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3027**Photo-Arts II**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

Further exploration in the theory and practice of photo-arts. Advanced studio procedures in black and white and digital photography are studied within a context of contemporary art practice.

Prerequisite(s): Art 3026 AND

One of [Art 2031 and Art 2032] or Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

SLR film cameras can be rented for a small fee. Access to a digital camera is recommended. Contact instructor for specifics. Students will be required to purchase lab supplies. For sections where Art 3027 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3028**Photo-Arts III**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

Advanced theory and practice of photo-arts. Alternative methods, large format film and digital processes are incorporated.

Prerequisite(s): Art 3027

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

SLR film cameras can be rented for a small fee. Access to a digital camera is recommended. Contact instructor for specifics. Students will be required to purchase lab supplies. For sections where Art 3028 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3032**Sculpture I**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

An introduction to various technical, aesthetic, and theoretical issues of three-dimensional form and material with an emphasis on contemporary sculptural practice. Diverse approaches will be investigated through a range of assignments in wood, clay, metal and found materials.

Prerequisite(s): One of [Art 2031 and Art 2032] or Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

For sections where Art 3032 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3033**Sculpture II**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

Building on Art 3032 - Sculpture I, this course furthers discussion related to various technical, aesthetic, and theoretical issues of three-dimensional form and material with an emphasis on contemporary sculptural practice. Diverse approaches will be investigated through a range of assignments in wood, clay, metal, and found materials.

Prerequisite(s): Art 3032

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**Sculpture III**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

Advanced exploration of techniques and theoretical issues related to contemporary sculpture practices through readings, visual presentations, field trips, discussions and hands-on production. Students will respond to thematic assignments using an open choice of materials.

Prerequisite(s): Art 3033

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**Context and Environment**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

The investigation of environment, site-specific and site-conditioned installation in situations exploring both interior and exterior spaces. Collaborative explorations of scale, traditional and non-traditional materials, and media in eco-creative ventures into culture and place.

Prerequisite(s): Art 3033

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 3040**Advanced Studio**

Credit hours: 6.00

Contact hours per week: 10-0-0

Self-directed study focusing on conceptual and material development in studio practice.

Prerequisite(s): Four of Art 3007, Art 3011, Art 3015, Art 3023, Art 3024, Art 3027, Art 3028, Art 3033, Art 3034, Art 3035, Art 3062, Art 3160, or Art 3350/
Indigenous Studies 3350 (One of these courses may be taken at the same time as Art 3040)

AND

17 university-level courses (a minimum of 51.0 credit hours)

OR

Admission to a Post-Diploma B.F.A. - Art program with a major in Art or Art Studio

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.**ART 3060****Media Arts (Introduction to Digital Studio)**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

A critical examination of sound, image and video construction, and the role of computers in contemporary art production. Two- and three-dimensional design issues and philosophy will be covered as they relate to computer environments and the contemporary artist's studio. A number of adjunct technologies will be presented such as digital darkroom, video editing, vectorbased drawing, text layout, and digital sound sculpture and design.

Prerequisite(s): One of [Art 2031 and Art 2032] or Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

For sections where Art 3060 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3061**Media Arts (Video Sketchbook)**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

An exploration of contemporary art video production and its history. This course familiarizes students with contemporary video and film issues, storyboarding, direction and digital assembly. Through screenings, readings and critiques, a range of conceptual and technical problems will be addressed.

Prerequisite(s): One of [Art 2031 and Art 2032] or Art 2030

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

For sections where Art 3061 is offered twice weekly, an extra hour is required per week for set up and clean up.

ART 3062**Media Arts (Advanced Digital Studio)**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

An advanced investigation of digital production in contemporary art studio. Time-based media, digital installation, audio and video are applied in a studio context, alongside an examination of philosophies and theories of technology and emerging media in relation to traditional art practice.

Prerequisite(s): One of Art 3060 or Art 3061

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. Students with relevant experience may be eligible for a prerequisite waiver for Art 3060 or Art 3061.

ART 3160**Drawing (The Body)**

Credit hours: 3.00

Contact hours per week: 5-0-0 or
6-0-0

Continued explorations in drawing focusing on the body as subject. Traditional study from the nude and draped figure will be balanced against a critical examination of issues surrounding figurative representation.

Prerequisite(s): Art 3010

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

For sections where Art 3160 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 - Advanced***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 hands-on, 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 4048**Senior Studio***Credit hours: 6.00**Contact hours per week: 10-0-0*

Self-directed study focusing on conceptual and material development in studio practice.

Prerequisite(s): Art 3040

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

ART 4049**Senior Studio***Credit hours: 6.00**Contact hours per week: 10-0-0*

Self-directed study focusing on conceptual and material development in studio practice.

Prerequisite(s): Art 4048 AND

A cumulative GPA of 3.30 or higher on all Art courses

Corequisite(s): Art 4160

Lib Ed Req: Fine Arts and Humanities

Note: Studio course.

ART 4160**Theory in Art Studio***Credit hours: 3.00**Contact hours per week: 3-0-0*

An exploration of the role of theory in contemporary art practices. Through seminar-style presentations, discussions, and various approaches to writing, students will critically examine how art production can engage with diverse fields of literary fiction, film, artist writings, popular culture, science, philosophy and theory.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours) AND

One 3000- or 4000-level course in Art (not including Art 3261, Art 3262, Art 3210 or Art 4210)

Lib Ed Req: Fine Arts and Humanities

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 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 4160 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 (ARHI)
Faculty of Fine Arts

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.

Substantially Similar:

*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 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.

Substantially Similar:

*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 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 1001 and Art History 1002

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

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: 3-0-0

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***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***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***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 30-1, Mathematics 0500, or Mathematics 0520 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 Biology 1020

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

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

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

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

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

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

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

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

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

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

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

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

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

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 2000 or
Biology 2300 AND
One of Biology 2200 or
admission to the Post-Diploma
B.Sc. in Environmental Science

Lib Ed Req: Science

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

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

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 4560**Plant Development**

Credit hours: 3.00

Contact hours per week: 3-3-0

Examination of molecular genetic mechanisms and environmental factors controlling plant development.

Prerequisite(s): One of Biology 3000 or

Biology 3110 AND

One of Biology 3310,

Biology 3460, or Biology 3560

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)

Equivalent: Biology 4850 (Behavioural Ecology) (prior to 2014/2015)

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): Biology 3300 AND Chemistry 2000 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 30-1, 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

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

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

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

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 AND Chemistry 2500

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 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, including Hollywood, "indie" narrative, documentary, and amateur practices. Students will become acquainted with the industrial, technological, and economic forces that determine recent production, distribution, and exhibition strategies.

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 2850 (Film Authorship) (prior to 2014/2015); 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**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)

Equivalent: New Media 3550 (prior to 2017/2018)

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**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

Equivalent: New Media 4420 (prior to 2017/2018)

Lib Ed Req: Fine Arts and Humanities

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

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.

Substantially Similar:

Management 2060 (prior to 2015/2016)

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: 3-0-0*

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 either one large or two smaller faculty-supervised productions/projects of the Department of Drama. Preparation of material from the perspective of a theatre creator, actor, director or other faculty-approved artistic role.

Prerequisite(s): Successful assignment to the cast or production staff of a Department of Drama production

Grading: Pass/Fail

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**OR**15 university-level courses (a minimum of 45.0 credit hours)**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 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 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 3831**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 3821 (Costume Construction) (prior to 2020/2021)

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 3845**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 (Costume Design) (prior to 2020/2021)

Lib Ed Req: Fine Arts and Humanities

Note: *Studio course.
Production attendance, rehearsal.*

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 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 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): Drama 3130

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 both 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**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 3080/
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**Lib Ed Req: Social Science***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, the role of uncertainty 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 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 2160 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 2160 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 2160 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

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

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

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

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

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

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 the Registrar's Office.

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 I 100**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 I 600**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 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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): 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.*

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)

Equivalent: Health Sciences 4850 (Health, Illness and Cultural Communication in Malawi) (prior to 2014/2015)

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

Equivalent: Health Sciences 4850 (Field Experience: Health, Illness and Cultural Communication in Malawi) (prior to 2014/2015)

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 1500**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

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 2000**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 1500 with a minimum grade of 'C-'

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 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 2000

Lib Ed Req: Fine Arts and Humanities

Note: May not be taken for credit by students with French 1500 or French 2000.

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 2000, 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 2000 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 2000, 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): One of French 1500, French Language Arts 30, or Français 30

Corequisite(s): One of French 2000 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: For students with some knowledge of French. Students who do not have French 1500, French Language Arts 30, or Français 30 (or equivalent), but have some knowledge of French at the intermediate level may be allowed to enroll after taking a required placement test.

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 2000 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 2000 or French 2001

Lib Ed Req: Fine Arts and Humanities

FRENCH 3500**Survey of French or French-Canadian Literature (Series)**

Credit hours: 3.00

Contact hours per week: 3-0-0

Representative literary works of France or French Canada.

Prerequisite(s): French 2300

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,**French 3500, 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, 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 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.

*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): Geography 1000 AND One of 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: 3-1.5-0*

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 3035****Fluvial Geomorphology***Credit hours: 3.00**Contact hours per week: 3-3-0*

A study of landforms and deposits created by running water. Aspects of drainage basin development, the measurement of drainage basin processes, concepts of drainage basin hydraulics and flood frequency analysis will be illustrated with field and computer-based laboratory exercises. The watershed will serve as the basic unit of study with emphasis on western Canadian river basins.

*Prerequisite(s): Geography 2030**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 Environmental Science 2000 or admission to the Post-Diploma B.Sc. in Environmental Science

*Lib Ed Req: 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, Geology 2060, or admission to the Post-Diploma B.A. or B.Sc. in Agricultural Studies

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/
MANAGEMENT 3660****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 Management 2030 OR Admission to the Post-Diploma Bachelor of Management program

*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 3235****Quantitative Models for Geographic Analysis***Credit hours: 3.00**Contact hours per week: 3-3-0**Other hours per term: 0-0-4*

Quantitative methods applied to regional problems in both human and physical geography. Population projection, cohort survival methods, shift and share forecasts, gravity models and time series analysis will be included using local data sets. A four-hour field trip will be scheduled.

Prerequisite(s): One of Statistics 1770 or Geography 2700 AND Third-year standing (a minimum of 60.0 credit hours)

*Lib Ed Req: 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 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 3551/
MANAGEMENT 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)

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)

Equivalent: Geography 3850 (The Changing Geography of China) (prior to 2015/2016)

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 Geology 2060

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 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 379 I**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/
Management 3660*

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 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 4415**Integrated Watershed Management**

Credit hours: 3.00

Contact hours per week: 3-3-0

Other hours per term: 0-0-16

Management of watersheds considering natural supply and demands; and natural and human-induced change. Modelling watershed processes using GIS and basic programming is a key objective of the course. Holistic management considers upstream and downstream interactions, and the interactive role of hydrology, hydraulics, ice processes, temperature, sediment, biota and land cover. Discussions address physical, chemical and biological components in natural and altered streams. A one-day or overnight field trip through a major watershed in Alberta is typically included.

Prerequisite(s): 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 or Geology***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.***GEOLOGY****(GEOL)****Faculty of Arts and Science****GEOLOGY 2060****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**Lib Ed Req: Science***GREEK****(GREK)****Faculty of Arts and Science****GREEK 1200****Elementary Biblical Greek I***Credit hours: 3.00**Contact hours per week: 3-0-0*

Fundamentals of Biblical Greek grammar and syntax. Readings in the New Testament.

*Lib Ed Req: Fine Arts and Humanities***GREEK 1300****Elementary Biblical Greek II***Credit hours: 3.00**Contact hours per week: 3-0-0*

Continuation of grammar and syntax. Reading in the Old and New Testaments.

*Prerequisite(s): Greek 1200**Lib Ed Req: Fine Arts and Humanities***HEALTH SCIENCES****(HLSC)****Faculty of Health Sciences****HEALTH SCIENCES 0520****Introduction to Health Sciences***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introductory course that provides insight into the theory and practice of health care professionals. Emphasis will be placed on the principles of primary health care, the social determinants of health, health promotion, and illness prevention.

*Prerequisite(s): Admission to the First Nations' Transition Program**Equivalent: Health Sciences 0500 (prior to 2016/2017)***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)

Substantially Similar:

Addictions Counselling 3002

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)

Equivalent: Health Sciences 3850 (Health Management and Leadership) (prior to 2015/2016)

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)

Substantially Similar: Addictions Counselling 3150; Psychology 2505

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 3500/
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)

Note: *This course will be presented primarily online.*

**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

*Equivalent: Public Health 3850 (Program Planning and Evaluation) (prior to 2015/2016);
Public Health 3850 (Health Promotion Project Design) (prior to 2014/2015)*

**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 3700
Problem Gambling**

Credit hours: 3.00

Contact hours per week: 3-0-0

An investigation of gambling history, and problem gambling etiology, experience, comorbidity, and neurobiology. The course also covers public health issues, and problem gambling screening, assessment, and treatment.

Prerequisite(s): 1.5 university-level courses (a minimum of 45.0 credit hours)

**HEALTH SCIENCES 3750
Addictions and Youth**

Credit hours: 3.00

Contact hours per week: 3-0-0

Explores youth involvement in the use and abuse of a range of substances, and the approaches to prevention and intervention which are used in addressing these problems.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)

Note: *This is an online course.*

HEALTH SCIENCES 3760**DSM Interventions***Credit hours: 3.00**Contact hours per week: 3-0-0*

Introduction to psychiatric assessment, diagnostic processes, and the major mental illnesses identified in the DSM. Exploring their learning interests in this topic area, students will contribute to and benefit from the learning of their peers by participating in online discussions.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)

Equivalent: Health Sciences 3850 (DSM Interventions) (prior to 2014/2015);
Health Sciences 3850 (Advanced Psychiatric Interviewing) (prior to 2014/2015)

Note: This is an online course.

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 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)

Equivalent: Health Sciences 4850 (Health, Illness and Cultural Communication in Malawi) (prior to 2014/2015)

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

Equivalent: Health Sciences 4850 (Field Experience: Health, Illness and Cultural Communication in Malawi) (prior to 2014/2015)

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.

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.

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 3153**Themes in the History of Revolutionary and Napoleonic France***Credit hours: 3.00**Contact hours per week: 3-0-0*

Discussions, readings and lectures on: conflicting interpretations of the Revolutionary Napoleonic Period; the Enlightenment critique of the Old Regime; the crisis of the monarchy; the phases of revolution; origins of the Terror; Reaction; the Directory; the rise of Napoleon; the Consulate and the Empire; consequences for France and Europe.

Prerequisite(s): One of History 2102 or 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***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

Credit hours: 3.00

Contact hours per week: 3-0-0

Survey of Indigenous Studies as a discipline focusing upon themes such as Indigenous arts, politics, languages, and histories.

Equivalent: *Native American Studies 1000 (prior to 2019/2020)*

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 2230 Family and First Nations' Community Development

Credit hours: 3.00

Contact hours per week: 3-0-0

This course emphasizes the historical dimensions of community development. It explores, as well, regional and cultural variations on the role of families, clans and institutions in the elaboration of Aboriginal self-government.

Prerequisite(s): *Indigenous Studies 1000*

Equivalent: *Native American Studies 2230 (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

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, theory, 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: *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 1000*

Recommended Background:

New Media 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 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: 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): One of Indigenous Studies 1000 or History 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): Indigenous Studies 1000

Equivalent: Native American Studies 2550 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

INDIGENOUS STUDIES 2600**Native American Literature***Credit hours: 3.00**Contact hours per week: 3-0-0*

Survey of the North American Native in literature as developed by Native and non-Native writers.

Prerequisite(s): Indigenous Studies 1000

Equivalent: 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): Indigenous Studies 1000

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 2800**Native American Politics***Credit hours: 3.00**Contact hours per week: 3-0-0*

The contemporary political situation of Indians in Canada from a Native perspective. Evolution and development of government-Native relations.

Prerequisite(s): Indigenous Studies 1000

Equivalent: Native American Studies 2800 (prior to 2019/2020)

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): Second-year standing (a minimum of 30.0 credit hours)

Recommended Background: Anthropology 1000; History 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/
MANAGEMENT 3500****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 Management 2500 or Indigenous Studies 1000

Equivalent: Native American Studies 3250/ Management 3500 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

**INDIGENOUS STUDIES 3280/
MANAGEMENT 3580****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 Management 2500 or Indigenous Studies 1000

Equivalent: 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 - Advanced***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 hands-on, 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: Native American Studies 3350/ Art 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.

**INDIGENOUS STUDIES 3400
Contemporary Aboriginal Political
Economy***Credit hours: 3.00**Contact hours per week: 3-0-0*

Comparative examination of inter-relationships between land, forms of self-government, socio-economic development strategy and environmental sustainability for contemporary Aboriginal peoples in North America and other regions of the world, with an emphasis on implications for Aboriginal peoples' policy and administration in Canada, and focus on learning relevant field research skills.

Prerequisite(s): Indigenous Studies 2400

Equivalent: Native American Studies 3400 (prior to 2019/2020)

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): One of Indigenous Studies 1000 or Third-year standing (a minimum of 60.0 credit hours)

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/
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.

Recommended Background:

Management 2100 AND One of Management 2500 or Indigenous Studies 1000

Equivalent: Native American Studies 3506/ Management 3506 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

INDIGENOUS STUDIES 3550**Settler Colonial Policies and Indigenous Sovereignties***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, Indigenous Studies 2550, or [Indigenous Studies 1000 AND Third-year standing (a minimum of 60.0 credit hours)]

Equivalent: Native American Studies 3550 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

INDIGENOUS STUDIES 3590/ 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 Management 2500 or Indigenous Studies 1000

Equivalent: Native American Studies 3590/ Management 3590 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

INDIGENOUS STUDIES 3600**Native American Literature - Advanced***Credit hours: 3.00**Contact hours per week: 3-0-0*

Native American cosmology and thought as seen in Native literature from oral literature to contemporary literature.

Prerequisite(s): Indigenous Studies 1000

Recommended Background: Indigenous Studies 2000

Equivalent: Native American Studies 3600 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

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): Indigenous Studies 1000 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

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/ MANAGEMENT 4507**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 Management 2500 or Indigenous Studies 1000

Recommended Background: Indigenous Studies 2100

Equivalent: Native American Studies 4120/ Management 4507 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

INDIGENOUS STUDIES 4150/ MANAGEMENT 4508**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 Management 2500 or Indigenous Studies 1000

Recommended Background: Indigenous Studies 2100

Equivalent: Native American Studies 4150/ Management 4508 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

INDIGENOUS STUDIES 4200**Law and Indigenous Development in Canada***Credit hours: 3.00**Contact hours per week: 3-0-0*

Systematic study of Canadian legislation, judicial decisions, and legal principles relevant to self-government and development in Indigenous communities and territories, focusing on skills in legal research, the interpretation of legal materials, and use of legal argumentation in areas such as taxation, licensing, natural resource leasing, and regulatory jurisdiction.

Prerequisite(s): Indigenous Studies 2100 AND Third-year standing (a minimum of 60.0 credit hours)

Equivalent: Native American Studies 4200 (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 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): One of Indigenous Studies 2100 or 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 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**(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 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 30-1, 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

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;
Health Sciences 3850 (Human Anatomy and Physiology) (prior to 2015/2016);
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

Substantially Similar:

Health Sciences 3850 (Human Anatomy and Physiology) (prior to 2015/2016)

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.

Substantially Similar:

Kinesiology 4620 (prior to 2014/2015)

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.

Equivalent: Kinesiology 2850 (Introduction to Biomechanics) (prior to 2014/2015)

*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 2600

Equivalent: Kinesiology 2670 (prior to 2014/2015)

*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

Equivalent: Kinesiology 2350 (prior to 2014/2015)

*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**One of Kinesiology 2140 or**Psychology 1000 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 2600**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**One of Kinesiology 2140 or**Psychology 1000 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**Substantially Similar:**Kinesiology 2750 (prior to 2014/2015)**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**Substantially Similar:**Kinesiology 4665 (prior to 2014/2015)**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 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

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.

Equivalent: Liberal Education 1850 (*The First Year Experience: Mapping Our Communities*) (prior to 2015/2016); Liberal Education 2850 (*The First Year Experience: Mapping our Communities*) (prior to 2015/2016); Liberal Education 2850 (*Mapping Self, Career, Campus, Community*) (prior to 2015/2016)

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 notion, 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**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 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.

Equivalent: Liberal Education 2850 (*Great Books Across Disciplines: A Brief History*) (prior to 2015/2016)

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 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)

Equivalent: Liberal Education 3850 (Great Books Across Disciplines: Rise of the Modern Self) (prior to 2015/2016)

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): One of Psychology 2110 or Psychology 2330 AND One additional 2000-level course (3.0 credit hours) in Psychology or Neuroscience

Recommended Background: Linguistics 2300 AND 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.

*Lib Ed Req: Social Science***MANAGEMENT 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*

MANAGEMENT 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): Management 1000 AND
One of Writing 1000 or a university English course (3.0 credit hours) or admission to a Certificate in Management program*

*Lib Ed Req: Social Science***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 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 Management 2100 is on external users of information about an organization.

*Lib Ed Req: Social Science***MANAGEMENT 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 Management 2400 is on internal users of information about the organization.

Prerequisite(s): Management 2100

*Corequisite(s): Economics 1010 AND Economics 1012 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*

Note: *All prerequisite courses must have a minimum 'C-' grade.*

**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 2850 (Introduction to Indigenous Governance and Business Management) (prior to 2018/2019)

Lib Ed Req: Fine Arts and Humanities

MANAGEMENT 2600**Introduction to Agricultural Enterprise Management***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): Management 1000

Equivalent: Management 2850 (Introduction to Agricultural Enterprise Management) (prior to 2018/2019)

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): Management 2600***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): Management 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): Economics 1010 AND**Economics 1012 AND*

One of Writing 1000 or a university English course (3.0 credit hours)

OR

Admission to the Post-Bachelor Certificate in Accounting

*Lib Ed Req: Social Science***MANAGEMENT 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**Economics 1012 AND**Management 2400 AND**One of Statistics 1770 or**[Health Sciences 3450/**Psychology 3450 and*

admission to the B.HSc./B.Mgt. Combined Degrees program]

MANAGEMENT 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): Management 1000**Equivalent: Management 3050/Political Science 3420 (prior to 2017/2018)**Lib Ed Req: Social Science***MANAGEMENT 3061****Information Systems and Management***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. 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.

MANAGEMENT 3070**Introduction to Supply Chain Management***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.

*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 3080****Managerial Skill Development***Credit hours: 3.00**Contact hours per week: 3-0-0*

Success in Management requires knowledge of both theoretical principles and the ability to recognize and use these concepts in existing work situations. Conceptual models and practical applications of managerial roles are featured in the course. Specific skills may include, but are not limited to: self-awareness, presentations, conducting meetings, creative problem solving, stress management and group dynamics.

MANAGEMENT 3091**Integrated Management Experience***Credit hours: 6.00**Other hours per term: 81-54-0*

Critical business issues are solved through the integration of management knowledge. Key ideas from the areas of international management, project management, management of human resources, organizational theory, marketing communications, and legal/social issues are integrated. 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 Economics 1010 AND Economics 1012**OR**Admission to the Post-Diploma Bachelor of Management program**Corequisite(s): Management 3040 or equivalent AND One of Writing 1000 or a university English course (3.0 credit hours)*

Note: The Integrated Management Experience (IME) course is a two-part course and consists of Management 3091 and 3092. Management 3091 and 3092 must be taken in sequence (fall term and spring term). Students who successfully complete Management 3091 and Management 3092 will not enrol in Management 3031, Management 3050, Management 3650, and Management 3920 in their program. Apply online at www.uleth.ca/dhillon/student-experience/integrated-management-experience.

MANAGEMENT 3092**Integrated Management Experience**

Credit hours: 6.00

Other hours per term: 81-54-0

Critical business issues are solved through the integration of management knowledge. Key ideas from the areas of international management, project management, management of human resources, organizational theory, marketing communications, and legal/social issues are integrated. Students develop an integrative approach to management and the ability to communicate, utilize creative skills and adopt behavioural flexibility.

Prerequisite(s): Management 3091

Corequisite(s): Management 3040 or equivalent AND One of Writing 1000 or a university English course (3.0 credit hours)

Note: *The Integrated Management Experience (IME) course is a two-part course and consists of Management 3091 and 3092. Management 3091 and 3092 must be taken in sequence (fall term and spring term). Students who successfully complete Management 3091 and Management 3092 will not enrol in Management 3031, Management 3050, Management 3650, and Management 3920 in their program. Apply online at www.uleth.ca/dhillon/student-experience/integrated-management-experience.*

MANAGEMENT 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): Management 3040

MANAGEMENT 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): Management 3100

Note: *All prerequisite courses must have a minimum 'C-' grade.*

MANAGEMENT 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): Management 2400

Note: *All prerequisite courses must have a minimum 'C-' grade.*

MANAGEMENT 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): Management 3130 AND

One of Writing 1000 or a university English course (3.0 credit hours)

OR

Admission to the Post-Bachelor Certificate in Accounting AND Management 3130

Corequisite(s): Management 3040

Note: *All prerequisite courses must have a minimum 'C-' grade.*

MANAGEMENT 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): Management 2400

Corequisite(s): Management 3100

Note: *All prerequisite courses must have a minimum 'C-' grade.*

MANAGEMENT 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): Management 3100

Note: *All prerequisite courses must have a minimum 'C-' grade.*

MANAGEMENT 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): Management 2100 AND Management 2400

Substantially Similar:

Management 3170 (prior to 2020/2021)

Note: *All prerequisite courses must have a minimum 'C-' grade.*

MANAGEMENT 3180**Financial Reporting in a Case-Based Environment***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course will provide an in-depth case study based examination of more complex issues in Financial Accounting. Students will be presented with a series of business cases that place them in various roles, and will be asked to identify the important issues, relate those issues to the underlying accounting concepts and principles, and provide cogent recommendations. The course will focus on the application of the case method and critical thinking and communication skills to accounting issues.

Prerequisite(s): Management 3101 AND Management 3130

Corequisite(s): One of Writing 1000 or a university English course (3.0 credit hours)

Note: All prerequisite courses must have a minimum 'C-' grade.

MANAGEMENT 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): Management 2100 AND Management 2400

Equivalent: Management 3850 (Government and Not-For-Profit Accounting) (prior to 2020/2021)

MANAGEMENT 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 courses (a minimum of 45.0 credit hours)

Equivalent: Management 3850 (Sports Marketing) (prior to 2016/2017)

MANAGEMENT 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, implications for product development, sales, promotion, distribution and pricing.

Prerequisite(s): Management 2020 AND One of Writing 1000 or a university English course (3.0 credit hours)

MANAGEMENT 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): Management 2020

Corequisite(s): Management 3210

Equivalent: Management 4210 (prior to 2015/2016)

MANAGEMENT 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): Management 2020 AND One of Economics 2900 or Statistics 2780

MANAGEMENT 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 3850 (Branding) (prior to 2015/2016)

MANAGEMENT 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, financial control and franchising.

Prerequisite(s): Management 2020

MANAGEMENT 3240**Sales Management***Credit hours: 3.00**Contact hours per week: 3-0-0*

The role of the sales force in the achievement of a firm's marketing objectives; decision-making skills in the development and management of sales programs.

Prerequisite(s): Management 2020

MANAGEMENT 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): Management 2020

OR

*Psychology 2800**Lib Ed Req: Social Science***MANAGEMENT 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 non-profit 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)***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): Management 2020 AND Management 2600**Equivalent: Management 3850 (Agricultural Marketing and Sales) (prior to 2018/2019)***MANAGEMENT 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 '7 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): Management 1000 AND Third-year standing (a minimum of 60.0 credit hours)***MANAGEMENT 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)***MANAGEMENT 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): Management 2030 AND Management 3050***MANAGEMENT 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): Management 2030 AND Management 3050***MANAGEMENT 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): Management 2030 AND Management 3050

MANAGEMENT 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): Management 2030 AND Management 3050

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 Management 2030 or admission to the Post-Diploma Bachelor of Management program

MANAGEMENT 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.

Recommended Background:

15 university-level courses (a minimum of 45.0 credit hours)

MANAGEMENT 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): Management 3040 AND One of Economics 2900 or Statistics 2780

MANAGEMENT 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): Management 3040

MANAGEMENT 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): Management 3040

MANAGEMENT 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): Management 3040

Corequisite(s): One of Economics 2900 or Statistics 2780

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): Management 2600

Equivalent: Management 3850 (Agricultural Finance and Markets) (prior to 2018/2019)

MANAGEMENT 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): Management 3040

MANAGEMENT 3485**Agricultural Commodity Risk Management***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.

*Prerequisite(s): Management 3475***MANAGEMENT 3500/
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 Management 2500 or Indigenous Studies 1000**Equivalent: Management 3500/Native American Studies 3250 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***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.

*Recommended Background:**Management 2100 AND One of Management 2500 or Indigenous Studies 1000**Equivalent: Management 3506/Native American Studies 3506 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***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 Management 2500 or [Management 1000 and Indigenous Studies 1000]**Equivalent: Management 3850 (Aboriginal Negotiations) (Prior to 2018/2019)**Lib Ed Req: Social Science***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 Management 2500 or [Management 1000 and Indigenous Studies 1000]**Equivalent: Management 3850 (Aboriginal Project Management) (prior to 2018/2019)**Lib Ed Req: Social Science***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)**Lib Ed Req: Social Science***MANAGEMENT 3552
Sustainable Tourism***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course builds on 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:**Management 3551/
Geography 3551**Equivalent: Management 4551 (prior to 2014/2015)***MANAGEMENT 3580/
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): One of Management 2500 or Indigenous Studies 1000**Equivalent: Management 3580/Native American Studies 3280 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities*

**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 Management 2500 or Indigenous Studies 1000

Equivalent: Management 3590/Native American Studies 3590 (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

**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 throughout the required Reading Week 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 semester 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 Management 2500 or [Management 1000 and Indigenous Studies 1000]

Note: Apply online at: www.uleth.ca/dhillon/mgt3592

**MANAGEMENT 3606
Managing Innovation and Emerging
Markets**

Credit hours: 3.00

Contact hours per week: 3-0-0

Of the roughly 160 countries recognized by 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 current 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 more truly metanational approach to global business.

Prerequisite(s): Management 3650

Equivalent: Management 3815 (prior to 2017/2018)

**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 3625
Canadian and World Agriculture**

Credit hours: 3.00

Contact hours per week: 3-0-0

This course includes an examination of Canadian agriculture and its relation to world agriculture, policies in Canada and through trade agreement that affect Canada's position in the world market, international price determination, trade barriers or concessions and market stabilization.

Prerequisite(s): Economics 1010 AND Management 2600

Equivalent: Management 3850 (Canadian and World Agriculture) (prior to 2018/2019)

**MANAGEMENT 3635
International Agricultural Trade**

Credit hours: 3.00

Contact hours per week: 3-0-0

Topics covered will include: gains from trade, agricultural trade policies of exporters and importers, exchange rates, multilateral trade agreements, preferential trade agreements, technical barriers, and environmental regulations and trade.

**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)

Lib Ed Req: Social Science

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)

Lib Ed Req: Social Science

**MANAGEMENT 3660/
GEOGRAPHY 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.

Prerequisite(s): One of Management 2030 or Geography 2210

OR

Admission to the Post-Diploma Bachelor of Management program

Lib Ed Req: Social Science

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): Management 3640 AND Third-year standing (a minimum of 60.0 credit hours)

MANAGEMENT 3670/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

Lib Ed Req: Social Science

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.

Note: *This course is restricted to incoming Exchange students. Registration is by School approval only.*

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 Management area. These courses are intensive studies of specific global management topics. Courses in the series offer an in-depth examination of an international issue or topic and provide students an opportunity to explore that particular subject in detail.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)

**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 3080****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

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 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.

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)

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 3500**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)

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 3860**Law and Institutions of International Trade**

Credit hours: 3.00

Contact hours per week: 3-0-0

An overview of the factors affecting international trade, such as international institutions and laws, and private international law issues. Major concepts and institutions relating to public and private international law. Basic concepts affecting international trade and commerce.

Prerequisite(s): Third-year standing (a minimum of 60.0 credit hours)

MANAGEMENT 3862**E-commerce Management**

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)

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): Management 2030 AND Management 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): Third-year standing (a minimum of 60.0 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 4075**Advanced Supply Chain Management**

Credit hours: 3.00

Contact hours per week: 3-0-0

Explores advanced supply chains concepts and techniques with a focus on analytical skills and mathematical modelling. Concepts such as optimization models; spreadsheet modelling; stochastic decision making; logistics management; pricing and revenue management; contract configurations; supplier selection methods; and auction mechanisms. Case studies and data analytics will be used to illustrate many of the concepts.

Prerequisite(s): Management 3070 AND Management 3075

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 2020 AND Management 2030 AND Management 3031 AND Management 3040 AND Management 3050 AND [Management 3061 or Management 3171] OR Fourth-year standing (a minimum of 90.0 credit hours) AND Admission to the Bachelor of Management program via the Diploma Admission Route AND Management 3031 AND Management 3050 AND [Management 3061 or Management 3171]

MANAGEMENT 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): Management 3101

Note: All prerequisite courses must have a minimum 'C-' grade.

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): Management 2100 AND Management 2400

Corequisite(s): Management 3040

MANAGEMENT 4130**Advanced Managerial Accounting II***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course is intended as a capstone course using the concepts and techniques taught in Management 3130 and Management 3131 in real-life case situations. Students define problems and apply management accounting knowledge to specific situations.

Prerequisite(s): Management 3131 AND One of Writing 1000 or a university English course (3.0 credit hours)

Note: All prerequisite courses must have a minimum 'C-' grade.

MANAGEMENT 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): Management 3100 AND Management 3151

Note: All prerequisite courses must have a minimum 'C-' grade.

MANAGEMENT 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): Management 3100 AND One of Writing 1000 or a university English course (3.0 credit hours)

Corequisite(s): Economics 3030 AND Management 3101 AND Management 3160

Note: All prerequisite courses must have a minimum 'C-' grade.

MANAGEMENT 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): Management 3215

MANAGEMENT 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): Management 2020

MANAGEMENT 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): Management 3210 AND Fourth-year standing (a minimum of 90.0 credit hours)

Corequisite(s): Management 3220

MANAGEMENT 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): Management 2030 AND Management 3050

MANAGEMENT 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): Management 2030 AND Management 3050

MANAGEMENT 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): Management 2030 AND Management 3050

MANAGEMENT 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): Management 2030 AND Management 3050

MANAGEMENT 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 Management 3050
OR
Health Sciences 3260 or Addictions Counselling 3260 AND
Health Sciences 3450/
Psychology 3450 AND
Management 3050*

MANAGEMENT 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): Management 2030 AND Management 3050

MANAGEMENT 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): Management 2030 AND Management 3050

MANAGEMENT 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 internationally, merge, downsize, introduce new technologies, and respond to government regulations, increasing competition, and changing customer needs. Issues covered include understanding change at the industrial, organizational, and individual levels; resistance and adaptation to change; and strategies for leading and navigating the organizational change process.

Prerequisite(s): Management 3031 AND Management 3050 AND Management 3061 AND Fourth-year standing (a minimum of 90.0 credit hours)

MANAGEMENT 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): Management 3470

MANAGEMENT 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): Management 3412 AND Management 3470

MANAGEMENT 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): Management 3412 AND Management 3470

MANAGEMENT 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): Management 3412 AND Management 3470 AND One of Economics 2900 or Statistics 2780

MANAGEMENT 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 who have applied and have been selected invest real money to generate real performance. Student Managed Investment Fund is a two-course series offered over consecutive fall and spring terms.

Prerequisite(s): Management 3412 AND Management 3470 AND One of Economics 2900 or Statistics 2780 AND Successful application to the Student Managed Investment Fund course

Recommended Background:

Past investment experience

Note: *Management 4470 and 4471 must be taken in sequence (fall > spring) in order to receive credit. In the fall term, students will register in Management 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 term, students will register in Management 4471, with 3.0 credit hours and 1.5 billing hours. At the end of the spring term, students will be given a final letter grade (for Management 4471). Students must apply for approval to take Management 4470-4471. Acceptance is based on academic background, past experience in investment (if any) and grades.*

MANAGEMENT 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 who have applied and have been selected invest real money to generate real performance. Student Managed Investment Fund is a two-course series offered over consecutive fall and spring terms.

*Prerequisite(s): Management 4470**Recommended Background:**Past investment experience*

Note: Management 4470 and 4471 must be taken in sequence (fall > spring) in order to receive credit. In the fall term, students will register in Management 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 term, students will register in Management 4471, with 3.0 credit hours and 1.5 billing hours. At the end of the spring term, students will be given a final letter grade (for Management 4471). Students must apply for approval to take Management 4470-4471. Acceptance is based on academic background, past experience in investment (if any) and grades.

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***MANAGEMENT 4507/****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 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 Management 2500 or Indigenous Studies 1000**Recommended Background:**Indigenous Studies 2100**Equivalent: Management 4507/Native American Studies 4120 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***MANAGEMENT 4508/****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 Management 2500 or Indigenous Studies 1000**Recommended Background:**Indigenous Studies 2100**Equivalent: Management 4508/Native American Studies 4150 (prior to 2019/2020)**Lib Ed Req: Fine Arts and Humanities***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 alike must work together to lead our communities into a better future managing the intricacies of working with Indigenous. 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 Management 2500 or Indigenous Studies 1000**Equivalent: Management 4850 (Indigenous Leadership and Management) (Prior to 2017/2018)**Lib Ed Req: Social Science***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 Management 3580/ Indigenous Studies 3280 or third-year standing (a minimum of 60.0 credit hours)

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): Management 2600***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)***MANAGEMENT 4640****Cross-Cultural Work Study***Credit hours: 3.00**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 Management 3640 or Management 3650***Note:** *Apply online at www.uleth.ca/dhillon/student-experience/international-experiences.***MANAGEMENT 4650****Integrated Global 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 crossnational 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 execute it. For this, we will rely on state-of-the art research, illustrative case studies, and relevant current events.

*Prerequisite(s): Management 3640 AND Management 3650***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): Management 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 Management 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 Management 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: 0-0-117

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 Management 3220 AND Successful application to the Applied Consulting course

Note: For more information visit www.uleth.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 Management 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 3091 and Management 3092, 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.uleth.ca/international/go-exchange).

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, 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, 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*

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*

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*

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: *Students should not take Mathematics 2090 if they have received credit for Mathematics 2000 prior to enrolling in Mathematics 2090. Mathematics 2090 may not be counted toward the requirements for a major in Mathematics or Computer Science. Mathematics 2090 is primarily intended for prospective elementary school teachers who would not ordinarily take university mathematics courses.*

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

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

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 3461**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 3461**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, L_p -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 Arts and Science 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 2160.

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 2160**Theory I**

Credit hours: 3.00

Contact hours per week: 3-0-2

This course comprises the first term of the core music theory sequence for all undergraduate Music majors. Students will begin by reviewing music fundamentals and basic principles of music notation. The primary goal of the course is to become familiar with analytical terms and symbols that communicate the essential compositional tools of tonal music. Students will study dissonance treatment and melodic writing by composing species counterpoint in two voices. Subsequently, they will apply these principles to the study of functional harmony through compositional and analytical exercises in four-voice writing and other common-practice and contemporary tonal music idioms.

Recommended Background:

A knowledge of music theory rudiments

Lib Ed Req: Fine Arts and Humanities

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 2160**Recommended Background:*

A knowledge of music theory rudiments

*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**Theory II***Credit hours: 3.00**Contact hours per week: 3-0-0*

This course continues the study of common-practice harmony and voice leading. Topics covered throughout the term include diatonic harmony, an introduction to chromatic harmony, phrase structure, and binary form. Analysis and stylistic composition are the primary means by which these topics will be approached and studied.

*Prerequisite(s): Music 2160**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 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****Audio Production Techniques***Credit hours: 3.00**Contact hours per week: 1.5-1.5-0*

This course introduces studio production for music and sound projects. 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

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 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**Theory III***Credit hours: 3.00**Contact hours per week: 3-0-0*

A continuation of the study of materials of common-practice tonal music, drawing mostly from the Western classical canon, and occasionally from North American popular music. Students will learn the tools necessary to analyze tonal music drawn from the classical common practice repertoire and articulate their findings in their writing. Students will gain facility to compose tonal music that models the form and idioms of eighteenth-century keyboard music, nineteenth-century Romantic lieder and character pieces.

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

Corequisite(s): Music 3360

Lib Ed Req: Fine Arts and Humanities

MUSIC 3460**Theory IV***Credit hours: 3.00**Contact hours per week: 3-0-0*

A continuation of the study of tonal harmony, focusing primarily on chromaticism from the Romantic and early twentieth century, including both Western art music and jazz. Students will also be introduced to post-tonal techniques of the early twentieth century, including modes, non-diatonic scales and collections, free atonality, and the twelve-tone method. Students will engage these topics both through analysis and model composition.

*Prerequisite(s): Music 3360**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**Corequisite(s): Music 3460**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 3460 AND Music 3461**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 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 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 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: 3-0-2*

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 3460 AND Music 3461**Lib Ed Req: Fine Arts and Humanities*

MUSIC 3612**Interactive Computer 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 3735

Equivalent: Music 4610 (prior to 2014/2015)

Lib Ed Req: Fine Arts and Humanities

Note: *Studio course.*

MUSIC 3630**Advanced Audio Production Techniques**

Credit hours: 3.00

Contact hours per week: 4-0-0

This course focuses on music production 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 rock, jazz. The main emphasis of the course is placed on studio practice and critical listening.

*Prerequisite(s): Music 2550 AND
One of Music 1011 or
Music 2160*

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 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 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 2181 AND
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): Music 2550

OR

*Music 3360**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 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****Audio Spatialization Techniques***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 compatibility 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*

A survey of standard forms and analytical procedures using selected examples from the musical literature.

Prerequisite(s): 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 AND 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): Music 36 I 2 or 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 2551 or Music Ensemble Activity 2561 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 4351
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 3361

Note: Attendance requirement.

**MUSIC ENSEMBLE ACTIVITY 4361
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 3551 or Music Ensemble Activity 3561 AND Audition

Note: Also available to all qualified students on a non-credit basis.
Attendance requirement.

**MUSIC ENSEMBLE ACTIVITY 4551
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 3551 or Music Ensemble Activity 3561 AND Audition

Note: Also available to all qualified students on a non-credit basis.
Attendance requirement.

**MUSIC ENSEMBLE ACTIVITY 4561
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 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 2600**Brain and Behaviour**

Credit hours: 3.00

Contact hours per week: 3-0-0

Theories and research on brain function and its relation to behaviour in humans and other animals.

Prerequisite(s): One of Neuroscience 1000, Biology 1010, or Psychology 1000

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 2600 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 2600 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: Neuroscience 2600

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 2600

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 2600**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 2600**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): Neuroscience 2600**Equivalent: Neuroscience 3680 (Cognitive Neuroscience I: Sensory Physiology, Perception and Attention) (prior to 2014/2015)**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): Neuroscience 2600 AND One course (3.0 credit hours) at the 2000 level in Psychology**Recommended Background: Neuroscience 3645**Equivalent: Neuroscience 3680 (Cognitive Neuroscience II: Memory, Emotion and Higher Cortical Function) (prior to 2014/2015)**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 2600**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: Neuroscience 2600**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'**Equivalent: Neuroscience 3850 (Statistics and Programming in Matlab) (prior to 2014/2015); Neuroscience 3850 (Introduction to Programming for Neurobiologists) (prior to 2014/2015)**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***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 2600**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 2600 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

Equivalent: Neuroscience 4850 (Understanding Behaviour) (prior to 2014/2015)

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

Equivalent: Neuroscience 3680 (Introduction to Computational Neural Systems) (prior to 2014/2015); Neuroscience 3850 (Introduction to Computational Neural Systems) (prior to 2014/2015)

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 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 2600 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)

Equivalent: New Media 2850 (Computer Drawing and Illustration) (prior to 2014/2015)

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
History and Theory of New Media

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 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 2031 AND Art 2032 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

Equivalent: New Media 3850 (Colour Theory and Digital Photo Manipulation) (prior to 2015/2016)

*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): Cinema 1000 AND
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

*Equivalent: New Media 3850 (Game
Design: Theory and Practice)
(prior to 2014/2015)*

*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 2010,
Art 3060, or Computer
Science 3770*

*Lib Ed Req: Fine Arts and Humanities***Note:** *Studio course.*

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)

Equivalent: New Media 2560 (prior to 2014/2015)

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); New Media 3850 (Expanded Cinema: Moving Images and their Forgotten Futures) (prior to 2015/2016)

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 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 4651**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 4640 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 4661

Grading: Pass/Fail

Lib Ed Req: Fine Arts and Humanities

Note: Students must take New Media 4651 and New Media 4661 in the same term.

NEW MEDIA 4661**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 4640 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 4651

Lib Ed Req: Fine Arts and Humanities

Note: Students must take New Media 4651 and New Media 4661 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 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 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

Substantially Similar:
Public Health 1000

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

Substantially Similar:
Public Health 1000

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 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

OR

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 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 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.

Substantially Similar:

Physical Activity 2225 (prior to 2014/2015);

Physical Activity 2235 (prior to 2014/2015);

Physical Activity 3225 (prior to 2014/2015)

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.

Substantially Similar:

Physical Activity 2445 (prior to 2014/2015);

Physical Activity 3445 (prior to 2014/2015)

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.

Substantially Similar:

Physical Activity 3605 (prior to 2014/2015)

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.

Substantially Similar:

Kinesiology 4630 (prior to 2014/2015)

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 30-1, 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 30-1, 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 30-1, 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 2560 or Mathematics 2565 (recommended)

Corequisite(s): Mathematics 2570

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)

Corequisite(s): Mathematics 2570

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 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 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 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 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 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 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): 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 AND
Mathematics 2580

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
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/**MANAGEMENT 3670****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

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 facta 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 3510****Political Thought Before 1500***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 and Religion***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 1000

Basic Concepts of Psychology

Credit hours: 3.00

Contact hours per week: 3-0-0

The subject matter and methods of psychology including the nature of cognition as well as the evolutionary, biological, social, and cultural factors that frame the development of human and animal capacities.

Lib Ed Req: Science or Social Science

PSYCHOLOGY 2030

Methods and Statistics

Credit hours: 3.00

Contact hours per week: 3-0-0

Basic research methods and descriptive and inferential statistics used in psychology.

Prerequisite(s): Psychology 1000

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): Psychology 1000

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 1000 or a previous course (3.0 credit hours) in Neuroscience

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 1000 or a previous course (3.0 credit hours) in Neuroscience

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): Psychology 1000

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 2030 AND Psychology 2330

Equivalent: Psychology 2320 (prior to 2018/2019); Psychology 3850 (Human Cognition) (prior to 2018/2019)

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 additional 2000-level course (3.0 credit hours) in Psychology or Neuroscience

Recommended Background: Psychology 2030

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 additional 2000-level course (3.0 credit hours) in Psychology or Neuroscience

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): One of Psychology 2110 or Psychology 2330 AND One additional 2000-level course (3.0 credit hours) in Psychology or Neuroscience

Recommended Background: Linguistics 2300 AND 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 2330 AND
One additional 2000-level
course (3.0 credit hours) in
Psychology or Neuroscience

Recommended Background:
Psychology 2800

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): Neuroscience 2600 AND
Psychology 3050

Lib Ed Req: Science

PSYCHOLOGY 3370**Animal and Human Minds***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of the merits of a more embodied, embedded approach to the study of psychology through drawing on work in robotics; artificial life; cognitive science; comparative, experimental, and developmental psychology; and animal behaviour.

Prerequisite(s): Two 2000-level courses (6.0
credit hours) in Psychology or
Neuroscience

Lib Ed Req: Science or Social 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 2030 AND
Psychology 2330 AND
Neuroscience 2600 AND
Third-year standing (a
minimum of 60.0 credit hours)

Equivalent: Psychology 2505 (prior to
2020/2021);
Psychology 3850 (Topics in
Abnormal Psychology) (prior to
2020/2021)

Substantially Similar:
Addictions Counselling 3150;
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 2600 AND
One additional 2000-level
course (3.0 credit hours) in
Psychology or Neuroscience

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 2600 AND
One additional 2000-level
course (3.0 credit hours) in
Psychology or Neuroscience

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 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 additional 2000-level course (3.0 credit hours) in Psychology or Neuroscience

*Lib Ed Req: Science or Social 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 additional 2000-level course (3.0 credit hours) in Psychology or Neuroscience

*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): Two 2000-level courses (6.0 credit hours) in Psychology

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 2030 AND Psychology 2700 AND Psychology 2800 AND Third-year standing (a minimum of 60.0 credit hours)

Equivalent: Psychology 2850 (Human Behavioural Ecology) (prior to 2018/2019); Psychology 3850 (Human Behavioural Ecology) (prior to 2018/2019)

*Lib Ed Req: 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): Two 2000-level courses (6.0 credit hours) in Psychology or Neuroscience

*Lib Ed Req: Social Science***PSYCHOLOGY 4000****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 3000-level courses (6.0 credit hours) in Psychology or Neuroscience

Recommended Background: Psychology 2030

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): Psychology 3240/ Linguistics 3240

Recommended Background: Linguistics 2300

*Lib Ed Req: 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 Two 3000-level courses (6.0 credit hours) in Psychology or Neuroscience

Equivalent: Psychology 4850 (The Psychology of Choice) (prior to 2018/2019)

Lib Ed Req: Science

PSYCHOLOGY 4325**Advanced Cognition and Perception (Series)**

Credit hours: 3.00

Contact hours per week: 3-0-0

Advanced seminar in cognition and perception. Offerings will focus on processes involved in thinking and perceiving.

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

Recommended Background:

Psychology 2030

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): One of Psychology 3360 or Psychology 3850 (Mechanisms of Human Perception) (prior to 2019/2020)

Equivalent: Psychology 4850 (Celluloid Psychology) (prior to 2019/2020)

Lib Ed Req: 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

Recommended Background:

Psychology 2030

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.

Substantially Similar:

Nursing 3020 and

Nursing 3021

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)

Substantially Similar:

Public Health 3850 (Healthy Public Policy) (prior to 2014/2015)

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)

Substantially Similar:

Addictions Counselling 3420

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: 0-0-382*

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): Aboriginal Health 1000 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

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 (SOCL) 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

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

Equivalent: Sociology 3770 (prior to 2014/2015)

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

Equivalent: Sociology 2020 (prior to 2014/2015)

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

Equivalent: Sociology 2200 (prior to 2014/2015)

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

Equivalent: Sociology 2210 (prior to 2014/2015)

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

Equivalent: Sociology 2440 (prior to 2014/2015)

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

Equivalent: Sociology 3450 (Women and Work) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4100 Series; Sociology 4850 (International Social Policy) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4100 Series; Sociology 4850 (Advanced Seminar in the Sociology of Religion) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4100 Series

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

Equivalent: Sociology 4850 (The Making of the Private Self) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4300 Series;
Sociology 3850 (Sociology of Risk) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4300 Series;
Sociology 4850 (Sociology of Risk) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4300 Series;
Sociology 4850 (Body and Social Control) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4300 Series;
Sociology 4850 (Eugenics to Genetics: Social Issues) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4300 Series;
Sociology 4850 (Embodying Sociology) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4300 Series

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

Equivalent: Sociology 4850 (Seminar in Deviance Theory) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4600 Series;
Sociology 4850 (Militarism and Society) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4600 Series;
Sociology 3850 (Social Stratification) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4600 Series;
Sociology 4850 (Social Stratification) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4600 Series

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

Equivalent: Sociology 4850 (Advanced Seminar in the Sociology of Subculture) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4700 Series;
Sociology 4850 (The Social Life of Things: Communication, Collection, Obsession) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4700 Series;
Sociology 4850 (Sounds and Society) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4700 Series

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

Equivalent: Sociology 3850 (Global Population) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4800 Series;
Sociology 4850 (Boomer and Millennial Social Trends) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4800 Series;
Sociology 4850 (Social Forecasting: The Future of Canada) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4800 Series

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

Equivalent: Sociology 4200 (Seminar in Classical Sociological Theory) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4900 Series;
Sociology 4210 (Seminar in Contemporary Sociological Theory) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4900 Series;
Sociology 4850 (Resisting Methods) (prior to 2014/2015) is equivalent to the same offering in the Sociology 4900 Series

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

Equivalent: Spanish 2850 (Fundamentals of Spanish Communication) (prior to 2015/2016)

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

*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 Special 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 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 4550 Practicum 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 3400 AND Therapeutic Recreation 3500 AND Therapeutic Recreation 4000 AND Therapeutic Recreation 4100 AND Therapeutic Recreation 4200 AND

A minimum cumulative GPA of 2.50 in courses offered by the Faculty of Health Sciences

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

Knowing Bodies: An Introduction to Women and Gender Studies

Credit hours: 3.00

Contact hours per week: 3-0-0

A critical feminist examination of women's embodied lives in differing social locations. The course challenges the traditional dichotomies of mind/body, culture/nature, and public/private in the treatment of such topics as the feminization of poverty; sexualities, reproduction, and family life; violence against women; women and religion; and culture and body image.

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

Theorizing Women's Lives: Feminist Frameworks

Credit hours: 3.00

Contact hours per week: 3-0-0

A history of the development of feminist theoretical perspectives from the 18th Century to the present using a multidisciplinary perspective.

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

This course explores the critical link between feminist theoretical perspectives and practice. Through various historical periods and global settings, students evaluate ways in which feminist consciousness shapes women's local, national, and transnational activism. Utilizing experiential learning, students gain first-hand knowledge of viable forms of advocacy for social justice and equality.

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

Critical analysis of scientific methods and research processes from a feminist perspective including design, collection and analysis of qualitative and quantitative data.

Prerequisite(s): 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 3010**Women, Bodies and Movement (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series investigates the relationships of women and their bodies to the physical, cultural, and social domains in which they move. Individual offerings will focus on or include areas such as health; sexualities; physical activity and well-being; cultural production; media; paid and unpaid labour; and migration and coerced removal.

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 3020**Women and Globalization (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series examines how women's lives and local environments are impacted by globalization. Individual offerings will focus on or include areas such as global and grassroots feminist alliances; human rights; feminist political economy; indigeneity; ecofeminism; technology transfer; sex trade and tourism; feminization of labour and free trade zones; and population, integration, and immigration policies.

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 3030**Women and the Arts (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series examines women's contributions to, and historical exclusion from, the arts. Individual offerings will focus on or include areas such as women and film; women and creative arts, critics, and patrons of the arts; the arts in cultural and separatist feminisms; race, disability, and ethnicity in the arts; avant garde and cultural production activism by women in the arts; and women's relationships to new technologies (cyberfeminism) and multimedia.

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 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 3060**Science, Spaces, Environments, and Technology (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

This series examines contemporary relationships among society and space; nature, environment and development; and culture and technology. Individual offerings will focus on or include areas such as feminist responses to the design, use, and increasing privatization of public spaces; the role of gender in planning for environmental sustainability; feminist political economy; and critiques of science.

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*

Relationships between various state formations and women's lives. Offerings start from the understanding that the state plays a central role in organizing gender, racial, sexual, and national relations of power. Focus on specific areas such as reproductive rights, paid/unpaid labour, citizenship and immigration, indigenous sovereignty, sexual rights, social security, marriage, and war/militarism.

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 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 3350****Feminist Frameworks (Series)***Credit hours: 3.00**Contact hours per week: 3-0-0*

Exploration of contemporary scholarship within feminist theoretical frameworks as they apply to specific topics or debates in the discipline. Individual offerings will focus on or include areas such as critical race theory, First Nations/Indigeneity, postmodern feminism, queer and trans theory, ecofeminism, globalization, decolonization, Third Wave feminist theories, and other specific areas that address the politics of difference.

Prerequisite(s): Women and Gender Studies 2300

*Lib Ed Req: Social Science***WOMEN AND GENDER STUDIES 3700****Advanced Research Practice***Credit hours: 3.00**Contact hours per week: 3-0-0*

Students will design research proposals, write grant applications and conduct ethics reviews for specific projects, employing feminist research theory and methods.

Prerequisite(s): Women and Gender Studies 2700 AND Women and Gender Studies 3350 OR One of Addictions Counselling 3260 or Nursing 3360

*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

One of Women and Gender Studies 3700 or [Women and Gender Studies 2700 and one Independent Study (3.0 credit hours) in Women and Gender 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.

WRITING

(WRIT)

Faculty of Arts and Science

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

This course is designed to develop skills in critical reading and writing at the university level. The course includes the critical reading of assigned texts and an introduction to expository writing, including description, analysis, persuasion and other strategies of academic discourse. Special attention will be paid throughout to conventions of English usage.

Substantially Similar:

Writing 1200;

Writing 1850 (Writing for Engineering Students) (prior to 2019/2020)

Lib Ed Req: Fine Arts and Humanities

Note: This course may NOT be included among the 13 courses required for the major in English for the B.A., B.A.Sc., or B.A./B.Mgt., or for the major in English/English Language Arts Education for the B.A./B.Ed. This course does NOT satisfy the prerequisite for 2000-level courses in English.

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

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

AWARDS AND SCHOLARSHIPS

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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.uleth.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 the deadline falls on a holiday or weekend, paper applications will be accepted until closing the next business day.

When no application is required, the award is made automatically on the basis of academic achievement.

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:

- a. **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.

- b. **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.

- c. **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.

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

- a. **Replacement** - Any award administered by the University of Lethbridge is subject to replacement by an award of equal or greater value.

- b. **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.

- c. **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.

- d. **Deductions** - The University may deduct from award payments any funds owed to the University.

- e. 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

A request for a deferral must be submitted **in writing** by the student to Scholarships and Student Finance by October 31 for the fall term and February 28 for the spring term. Justifiable reasons for deferral include:

- a. **Unavoidable Circumstances** - An award may be deferred when circumstances which are substantially beyond the student's control prevent his/her full-time registration in the term for which an award was made.

5. **Returning After an Absence**
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.
6. **Posthumous Awards**
Financial awards will not be disbursed posthumously.
7. **Note of Appreciation**
Where a donor contact is available, award recipients will be expected to write a note of appreciation to the donor.

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. Only academic records from the last five years will be considered for measurement of academic achievement.
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. 19)**. 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. 19)**. 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. 456)**. 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. 19)**. 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. 456)**. 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. 456)**. 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.
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.

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 the Registrar's Office by the appropriate application deadline, and ensure that the Registrar's Office 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. 454)**.

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. 454)**.

3. FINANCIAL ASSISTANCE

Information regarding part or full-time government student financial assistance programs are available at the Scholarships and Student Finance office (AH115, tel. 403-329-2585).

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
- All other provincial/territory links can be accessed from:
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 Loan Fund

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 are available to assist students experiencing delays in the normal disbursement of their confirmed government student loans, or grants.

The full policy is available online at www.uleth.ca/policy/emergency-student-loan-fund.

GENERAL SERVICES AT THE UNIVERSITY OF LETHBRIDGE

<p>1. ACCOMMODATED LEARNING CENTRE 460</p> <p>2. BOOKSTORE 460</p> <p>3. BUS SERVICE 460</p> <p>4. CAMPUS ID CARD 460</p> <p>5. CAMPUS MOBILITY SERVICES 460</p> <p>6. CAMPUS SAFETY 460</p> <p>7. CAMPUS WOMENS CENTRE (CWC) 461</p> <p>8. CAREER BRIDGE 461</p> <p>9. CHAPLAINCY 461</p> <p>10. CKXU RADIO 461</p> <p>11. CONFERENCE AND EVENT SERVICES 462</p> <p>12. CONVOCATION 462</p> <p>13. COUNSELLING AND CAREER SERVICES 462</p> <p>14. ENROLMENT SERVICES 462</p> <p>15. FOOD SERVICES AND CATERING 462</p> <p>16. HEALTH CENTRE 463</p> <p>17. HOUSING SERVICES 463</p> <p>18. INDIGENOUS STUDENT AFFAIRS 465</p>	<p>19. INFORMATION TECHNOLOGY SERVICES . . . 465</p> <p>20. LETHBRIDGE PUBLIC INTEREST RESEARCH GROUP (LPIRG) 466</p> <p>21. LIBRARY 466</p> <p>22. MAIL SERVICES 466</p> <p>23. OFF-CAMPUS HOUSING 466</p> <p>24. OFFICE OF THE ASSOCIATE VICE- PRESIDENT (STUDENTS) 466</p> <p>25. PRINTING SERVICES 466</p> <p>26. REGISTRAR'S OFFICE 467</p> <p>27. SPORT AND RECREATION SERVICES 467</p> <p>28. STUDENT AWARDS - SCHOLARSHIPS AND BURSARIES 468</p> <p>29. STUDENT FINANCE - GOVERNMENT STUDENT LOANS AND GRANTS 469</p> <p>30. STUDENTS UNION 469</p> <p>31. THE MELIORIST PUBLISHING SOCIETY (STUDENT PUBLICATION) 470</p> <p>32. UNIVERSITY ADVANCEMENT 470</p> <p>33. WRITING CENTRE 470</p>
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I. ACCOMMODATED LEARNING CENTRE

Students with Disabilities

The Accommodated Learning Centre (ALC) facilitates academic accommodations for students with a wide range of documented conditions including: learning disabilities, ADHD, psychiatric disorders, medical, mobility, and sensory conditions. Recent documentation is required to determine eligibility for services and supports. This may include: a psycho-educational assessment, psychological report, psychiatric report, counsellor's letter or diagnostic document from a health professional; depending on the condition and accommodations required. The ALC provides exam accommodations, specialized support staff, assistive technologies and grant funding assistance to eligible students. The ALC can also conduct screenings for those who suspect a learning disability to determine if further assessment is warranted. The ALC encourages skill development and promotes self-advocacy toward increased independence among students registered with the Centre. For more information and possible assistance, please contact the Accommodated Learning Centre.

Office: B760

Phone: 403-329-2766

Website: www.uleth.ca/ross/accommodated-learning-centre

2. BOOKSTORE

Retail Services

The University Bookstore is located on Level 2 of the Students' Union Building. It stocks all required course materials as well as a full line of general reading books, stationary, art supplies, University apparel and giftware.

Textbook Reservation Service

The Bookstore can do your textbook shopping for you. Access the Bookstore's website for information as it becomes available. Textbook reservation sign-up occurs in April and is only available for the fall term for the Lethbridge campus only.

Online Ordering

The Bookstore has all your books available for online ordering through its e-commerce site, bookstore.uleth.ca. New term titles are available two weeks prior to the start of each term. Purchases can be picked up in-store (at the Lethbridge campus only) or shipped to you (charges are applied for shipping).

Returns Policy

The Bookstore's policy for returning textbooks and other materials is clearly stated on the *Return Policy* attached to the receipt with your purchase. If you are unsure whether an item is returnable, please ask the Bookstore staff for clarification.

Used Book Sell Backs

If a textbook is going to be used the following term, and the Bookstore requires inventory, good-quality used copies from students will be purchased. This service is available daily, except during term opening (watch for time changes). As well, the Bookstore sponsors semi-annual 'Used Book Sell Backs' during exam week in April and December. Exact dates and times are posted on campus and on the Bookstore website.

Various Forms of Course Materials Available

The Bookstore staff are continually reviewing various opportunities to provide cost savings to our students. Watch for options as they become available such as rental for new and

used books, digital formats and special requests from instructors.

Website: www.uleth.ca/bookstore

3. BUS SERVICE

The City of Lethbridge operates a regular bus service between west Lethbridge and downtown in accordance with a published schedule, including one stop at the campus.

Bus passes and additional information on schedules are available from the Students' Union *Rockerman's Service Centre* (SU232) and the City of Lethbridge. All students are enrolled in Upass to ensure the affordability of the service. Information regarding opt-out can be found on the www.ulsu.ca.

4. CAMPUS ID CARD

The University of Lethbridge Campus ID Card is the official picture identification of the University of Lethbridge. All students, faculty and staff need this card in order to access vending, printing, photocopying, food services, recreation facilities, athletic events, the Library and some off-campus services.

Campus ID Cards may be obtained at the ITS Solutions Centre in Turcotte Hall. Government-issued photo ID is required. For more information contact the ITS Solutions Centre (tel. 403-329-2490). The initial card is free—replacing a damaged, lost or stolen card is \$16.05.

Office: TH218

Phone: 403-329-2490

Website: www.uleth.ca/information-technology/services/campus-id-cards

5. CAMPUS MOBILITY SERVICES

Anyone intending to park a vehicle on the University of Lethbridge campus must purchase a parking permit. Please note, parking stalls on campus are a finite resource and the availability of a stall is not guaranteed; early online reservation is strongly recommended. Current permit rates can be accessed on the Campus Mobility Services website. Individuals holding a current disabled license plate and/or parking placard requiring specific needs should contact Campus Mobility Services for a permit to park in a pre-assigned area.

Short-term visitor Pay & Park is also available in various lots around campus, ranging from one hour to all day. Pay & Park permit dispensers are located in Lots C, D, G/E, H, S, and N. Students living in residence are to contact Campus Mobility Services to purchase a parking permit, once the Housing Check-in is closed.

Website: www.uleth.ca/facilities/parking

6. CAMPUS SAFETY

Campus Safety is primarily a service-oriented department committed to providing a healthy, safe and secure environment for our community and meeting the specialized needs of the University. Campus Safety is comprised of four service divisions: Emergency Management, Safety Services, Insurance and Risk, and Security Services.

Website: www.uleth.ca/campus-safety

Emergency Management

Emergency Management is responsible for providing emergency planning guidance to all university departments through **Mitigation, Preparedness, Response and Recovery**. By adopting an "all hazards" approach to planning and providing leadership during times of crisis, Emergency Management strives to ensure life safety, protect property,

enhance resilience through business continuity best practices, and protect the environment. Emergency Management goals are achieved through maintaining a volunteer workforce of Campus Incident Response Team members; providing training; developing key partnerships to establish overarching University and department emergency plans; maintaining a mass notification system and providing leadership to the Emergency Management Team in accordance with Incident Command System best known practices. Prepare, Plan, Practice!

Website: www.uleth.ca/campus-safety/emergency-management

Insurance and Risk Services

Insurance and Risk is responsible for the administration of the University's insurance portfolio, risk management services for University activities, claims management, contract review relating to insurance and indemnity agreements, and the administration of the University's Alcohol and Student Safety Abroad policies.

Website: www.uleth.ca/risk-and-safety-services

Safety Services

Safety Services provides oversight for administration of the University's Environment, Health and Safety program and works collaboratively with the University community to promote a strong safety culture.

Our team supports development of tools and strategies to control recognized hazards and meet regulatory requirements. We provide guidance, educational services and programs that foster a safe and healthy environment for research, work and study.

Website: www.uleth.ca/risk-and-safety-services/content/safety-0

Security Services

Security Services patrol the campus 24 hours a day and are responsible for promoting a safe campus environment with the assistance and support of the campus community. In addition to foot and CCTV patrols, Security Services also delivers the following programs: Safe Walk, Working Alone, Crime Prevention, First Aid, Incident Investigation and the campus Lost and Found service.

Website: www.uleth.ca/security

7. CAMPUS WOMENS CENTRE (CWC)

The Campus Women's Centre offers many services to the University and its surrounding community. It is a resource and referral centre where all students can come to talk, access resources, or study. Student volunteers, experienced with student life on campus, are easy to talk to and can relate to issues such as frustrations with roommates, juggling home life with school life, and personal conflict. Although the Campus Women's Centre is not a licensed counselling centre, student volunteers are trained to recognize when someone is in need of counselling services and will direct them accordingly. The Campus Women's Centre can facilitate help for students through contact with local organizations such as the YWCA, the Womanspace Resource Centre, shelters and food banks.

Students are encouraged to be involved in the Women's Centre as there are many opportunities to volunteer, plan events, or create new resources for the campus community. The Women's Centre has a wide range of pamphlets and information about topics related to sexual health, safe relationships, and sexuality. Menstrual products, safe-sex resources, diapers, and pregnancy tests are free for students to access. Throughout the year, the Women's Centre organizes and participates in a variety of events impacting marginalized

groups in our society today. These events include the Sisters in Spirit Vigil, International Women's Day, Sexual Awareness Week, and Mental Health Week.

Currently, each student contributes a levy fee of three dollars in the fall and spring terms. Since the Women's Centre fee is not compulsory, students may choose to opt out. To do so, students must submit a formal email request, indicating their full name and University ID number from a valid 'uleth.ca' account. Alternatively, students may stop by the office and fill out an opt-out form. Refunds will be administered during the last week in October for the fall term and the last week in February for the spring term. Applications and requests for opt out must be submitted prior to the refund dates. Students will receive an email confirmation instructing them to come to the Women's Centre in person to receive their refund in cash. A valid University ID card is required.

Office: SP150

8. CAREER BRIDGE

Discover the path to your future by visiting the Career Bridge office.

Offering students unique opportunities in work-integrated learning, the Career Bridge office administers Applied Studies courses and the Co-operative Education programs for students in the Faculties of Arts and Science, Fine Arts, Health Sciences, and the Dhillon School of Business.

See **Applied Studies and Co-operative Education, p. 277.**

Office: AH151

Phone: 403-329-2000

9. CHAPLAINCY

Chaplains provide a variety of services to support staff, faculty, and students. Chaplains provide religious services, opportunities for social engagement, and pastoral support in times of need. Chaplains are supported by particular religious bodies but are open to serving members of the university community with spiritual needs regardless of their religious affiliations. They can also help people connect to other local religious communities.

Office: MH4054

Phone: 403-317-2849

10. CKXU RADIO

CKXU 88.3 FM is a campus-based community radio station that broadcasts at 2900 Watts ERP. We are a volunteer-driven radio society that provides independent campus and community radio, and opportunities through programming, tools, training and events in Southern Alberta. Through our care of community, we cultivate an environment full of opportunities that foster an inclusive and diverse culture.

The station and its volunteers are committed to serving the interests of both the University community and the community at large. The station's programming functions as an alternative to mainstream media by showcasing a variety of musical styles and genres, supporting musical artists, local events, providing a platform to underrepresented voices, and exploring marginalized issues. An interest in diversity, and a willingness to learn, is all that is required to participate within CKXU.

Office: SU164

Phone: 403-329-5189

Email: manager@ckxu.com

Website: www.ckxu.com

11. CONFERENCE AND EVENT SERVICES

Conference and Event Services coordinates conferences, meetings, and special events throughout the year. Conference and Event Services also run the summer on-campus LUX Hotel in Mount Blakiston residence from May – August.

Conference and Event Services can help coordinate every aspect of your event, from setup to take down. On-campus meeting spaces can be rented to accommodate groups of five to 450 people. Rooms are located across campus and can provide cost-effective, state-of-the-art venues that can accommodate all the requirements for meetings, conferences or group events.

Phone: 403-329-2244

Fax: 403-329-5166

Email: cnf@uleth.ca

Website: www.uleth.ca/conference

12. CONVOCATION

Convocation represents the culmination and celebration of a student's academic accomplishments at the University of Lethbridge; it is the formal ceremony where students don caps and gowns and receive their degrees, diplomas or certificates. University of Lethbridge Convocation ceremonies are held in the summer and fall terms, and are memorable and grand occasions. We strongly encourage all graduating students to attend and celebrate this important milestone with family, friends, faculty and University staff.

Email: convocation@uleth.ca

Website: www.uleth.ca/convocation

13. COUNSELLING AND CAREER SERVICES

Counselling and Career Services provides personal mental health counselling and career services to students.

Office: AH153

Counselling Services

Counselling services are provided free of charge to registered students. The purpose of counselling services provided is to contribute to the total well-being and development of individual students. Individual personal mental health counselling and career counselling, as well as group and wellness workshops are offered to assist students in realizing their educational and personal potential.

Although Counselling and Career Services normally operates on an appointment basis, counsellors see students experiencing a personal crisis as quickly as possible. After-hours and weekend emergencies should be handled through Campus Security (403-329-2345) or the emergency service at Chinook Regional Hospital (403-388-6300). Personal crisis situations experienced after hours should be directed to the Distress Line of Southwestern Alberta (403-327-7905 or 1-888-787-2880).

Students with career and/or mental health concerns are encouraged to make a counselling appointment before the situation becomes overwhelming. Students are required to come to our office (AH153) to schedule an appointment.

For employees of the University, personal counselling is available through the Employee and Family Assistance Program. Call 403-329-2480 or 1-800-663-1142 (24 hours) for further information.

Phone: 403-317-2845

Email: counselling.services@uleth.ca

Website: www.uleth.ca/counselling

Career Services

The following additional career services are available free of charge for students and alumni:

Career Exploration/Job Search Techniques - The department supports students in gathering occupational information such as: what you can do with your major, job qualifications, job duties, educational requirements and labour market conditions. The department assists students in all aspects of the job search process (e.g., resume writing, interview techniques) on an individual appointment basis or in a group workshop.

Job Postings - Students/alumni looking for a job (part-time, temporary, summer or full-time after graduation) can view job postings via the online job board. Log onto the job board with your University of Lethbridge username and password.

On-Campus Recruitment (OCR) - The department assists employers in recruiting University of Lethbridge students throughout the year. On-campus recruiting (OCR) postings can be found on our job board.

Career Events - The department coordinates the annual university-wide Career Fair (typically held in September) and the Summer Job Fair (typically held in February). The Career Fair and the Summer Job Fair are open to all students and the broader community, and provide an exceptional opportunity to gather information on career paths and to network with potential employers.

Note: For further information on all programs, please contact Counselling and Career Services at 403-317-2845, visit us in Anderson Hall (AH153), or access additional information through the following:

Email: career.services@uleth.ca

Website: www.uleth.ca/career-bridge/career-services

Job Board: myexperience.uleth.ca

14. ENROLMENT SERVICES

The Enrolment Services department includes student recruitment, student engagement and student communications. The department is responsible for events, programming and support for prospective students and their families, high school and college guidance counsellors, new and current University of Lethbridge students, as well as University Faculties and staff. Events include Open House, Information Evenings, New Student Orientation and Convocation.

Programming includes prospective student advising, Mentor Mail, student communications, campus tours, Student-for-a-Day, tutoring, study skills and learning strategies, as well as mental health awareness and education. Resources such as the Viewbook, Parent and Family handbook, To-do List, prospective student website and the off-campus housing directory are created and maintained by Enrolment Services.

Phone: 403-329-2762

Email: inquiries@uleth.ca

Website: ulethbridge.ca/future-student

15. FOOD SERVICES AND CATERING

Food Services offers an enhanced dining and catering experience to our students, faculty, staff and guests of the University of Lethbridge.

Delivered in an a-la-carte style with a variety of retail food outlets on campus, choices include a contemporary range of healthy menu options to meet most dietary requirements and fully satisfy the needs of our residence students on our mandatory dining plans.

Retail Food Locations

Urban Market (University Hall, 6th floor)

Our signature dining outlet, Urban Market, is located adjacent to the Atrium on Level 6 of University Hall. This contemporary concept includes personal service stations offering fresh, made-to-order selections such as hand-made pizzas, calzones and bakery items; a daily selection of soups, salads and sandwiches; a different Culinary Concept each week; sushi; For You By You station lets you customize your lunch entree; and full-service BBQ grill where steaks, fish & other butcher cuts of meat are cooked to order. Menus are rotated weekly featuring traditional favourites as well as new and innovative menu ideas.

Other locations include:

- Booster Juice (1st Choice Savings Centre, 2nd floor)
- Carvery & Bakery (Science Commons, 7th floor)
- Starbucks (Library Building, 9th floor)
- Subway (University Hall, 6th floor)
- Tim's Express (University Hall, 6th floor)
- Tim Horton's' (1st Choice Savings Centre, 2nd floor)

Catering

Catering services offers a choice of three professional catering partners providing a full range of services to suit any occasion on campus.

Services range from refreshments for small groups, luncheons, full-services formal banquets and receptions. Menus can be customized to meet individual client requirements and budgets.

Fresh Fork Catering, Chartwells

Phone: 403-332-4475

Email: catering@uleth.ca

Country Kitchen Catering

Phone: 4030328-7756

Email: booking@countrykitchencatering.ca

LA Chefs

Phone: 403-320-7702

Email: lachefs@lachefs.ca

Prime Catering

Phone: 403-382-9636

Email: info@primecatering.ca

Retail food locations and approved catering partners subject to change.

16. HEALTH CENTRE

The University of Lethbridge Health Centre is a diverse team of medical and mental health professionals offering students, faculty and staff a wide range of professional and confidential care for a variety of health issues, including:

- Illness and injury;
- sexual health (STI testing, birth control including IUD insertions, pregnancy testing);
- sleep problems;
- skin concerns and allergies;
- mental health (anxiety, depression, ADHD); and
- general health questions and more.

To make an appointment, call or visit the Health Centre in the Students' Union Building on the basement level, SU020. Walk-ins available.

Hours: Monday-Friday; 9:00AM-4:00PM

Phone: 403-329-2484

Email: healthcentre@uleth.ca

17. HOUSING SERVICES

'Come Live With Us!'

Our focus in Housing Services is to provide students with the best possible environment for academic success and personal development. Residence Life programming is offered and coordinated through live-in Residence Assistants. Some examples of the programs and workshops offered in the past include: time management, physical activities, health and nutrition, alcohol awareness, study skills, exam preparation, library use, tutoring, movie nights, cabarets, résumé writing, and effective interview and job search skills.

The convenience of living on campus, together with access to the University's services and programs, gives students educational, social and cultural advantages. Residents tend to be more involved in campus life, build stronger friendships than their off-campus counterparts and develop greater tolerance and understanding. All this adds up to an enhanced opportunity to graduate from the University of Lethbridge.

Campus Housing Choices

The University provides campus housing for single students in fully-furnished dormitories, self-contained apartment units and townhomes. Units meeting the needs of students with mobility challenges are also available. University Hall, Kainai, and Piikani Houses are available to students in their first year of study. Tsuu T'ina House, Siksika House, Residence Village, and Mount Blakiston House units are furnished and assigned to students in their second and subsequent years of study.

New High School Graduates

University Hall Residence - Our most convenient, on-campus accommodation offers 275 single and double rooms within University Hall. These traditional-style, fully-furnished dorm rooms are available on the first four floors and are reserved for first-year residents coming to the University directly from high school. The residence is equipped with common rooms, a games room, a laundry centre and study rooms. The Library, main campus food outlet, and study rooms are conveniently located, and most academic areas are accessible without going outside on inclement days.

Kainai and Piikani Houses - Our Kainai House and Piikani House apartment buildings accommodate 120 students respectively in one-, two-, four- and six-bedroom, fully-furnished units. All bedrooms are single occupancy and suites are assigned on a bedroom-by-bedroom basis. Swipe-card laundry facilities are provided on each floor. This building also includes study and meeting rooms, television lounge, and games room. The apartment buildings are conveniently located south of Aperture Drive, just a short five-minute walk away from the centre of campus.

Residence Dining Plan

All University Hall, Kainai House and Piikani House residents must participate in the Residence Dining Plan as these rooms are offered on a "Room and Board" basis only.

Website: www.uleth.ca/housing/eating

Further information on meal plans can be obtained from the Dine on Campus website.

Website: www.dineoncampus.ca/uleth

Transfer and Continuing Students

Aperture Residential Park Single Housing Apartments and Townhomes - Our apartment and townhouse-style buildings accommodate 456 students in studio, one-, two- and four-bedroom, fully-furnished units. All bedrooms are single

occupancy and suites are assigned on a bedroom-by-bedroom basis. Study areas, swipe-card and coin-operated laundry facilities, and barbecues are provided in each residential area. These buildings include a fitness room, study and meeting rooms, television lounge, and games room which are available to all residence students. The Tsuu T'ina House, Residence Village and Mount Blakiston House buildings are located south of Aperture Drive.

Aperture Park Graduate and Mature Student Townhouses

Housing for mature and graduate students is provided in Siksika House with one-, two- and three-bedroom townhome units, Residence Village four-bedroom townhomes, or studio apartments in Mt. Blakiston House. All townhomes have a refrigerator, stove and window coverings. Central, coin-operated laundry facilities are available in each of the buildings. Each home has its own entrance and balcony, with living room and kitchen on one floor and bedrooms on a separate level. The townhomes are located just south of the two apartment buildings in Aperture Residential Park. Studio apartments are fully self-contained one-bedroom units with private bathroom, kitchen and bedroom located on the fifth floor of Mt. Blakiston House.

What You Should Bring for Comfort

What to bring varies depending on the type of room that is assigned. The following items are suggestions only: personal computer, circuit breaker-equipped power bar, extension cords, alarm clock, hair dryer, towels, toiletry items, athletic gear, laundry soap, cleaning supplies, vacuum cleaners and bedding.

Note: All electrical appliances must be CSA approved.

Please refer to our website for more detailed information regarding what to bring by building/room type.

Website: www.uleth.ca/housing/what-bring

Application Process

Applications are accepted starting in September for the following September occupancy. Applications may be obtained online at www.uleth.ca/housing. You must apply to the University of Lethbridge for Admission prior to being eligible to apply for campus housing. Once you have received your University of Lethbridge ID number you may log on to the Housing Residence Portal to apply. All applications must be accompanied by a non-refundable application fee plus deposit payable online. **Students are advised to apply as early as possible to improve their chances for accommodation.** Newly admitted applicants applying before April 1 will have their names entered into an accommodation lottery. Approximately 75% of the allocated beds will be randomly selected. The names drawn will be guaranteed accommodation prior to June 15. Returning students whose applications are received by January 15 will participate in the lottery draw for 75% of the allocated beds. Others will have their names placed on the application list in priority order according to date received. Offers will be based on roommate compatibility, application profiles and unit availability. Applications are available online at www.uleth.ca/housing.

Offer of Accommodation

Once accommodation is assigned, the student is advised through an *Offer of Accommodation* letter via email. This letter must be signed and returned, along with the second advance payment, by the deadline date as stated in the offer. Failure to

meet this deadline will result in cancellation of the application and loss of the first advance payment.

Security Deposit

All students staying in campus accommodation will be required to submit a security deposit of \$400 for single student housing. Interest will be payable on any unused amount if applicable under Provincial Government Statute. Security deposits will be used to cover any outstanding housing-related charges deemed payable upon termination of occupancy, including cancellation fees, damage, cleaning, lost keys, dining plan, etc.

The security deposit shall not be deemed to constitute a limit for any charges which may be incurred under the lease.

Cancellations

Applicants who are declined admission to the University, who cannot be accommodated by Housing Services by the first day of classes, or who cancel their application in writing prior to receiving a room offer may request a refund of all advance payments. Cancellation for any other reason will be subject to forfeiture of the advance payments according to the cancellation schedule as outlined in the *Offer of Accommodation*. The refund amount for these cancellations is based on the date upon which written notice is received by Housing Services; therefore, students are advised to contact Housing Services as soon as their plans change. Students who cancel a current booking will be subject to a cancellation fee. Cancellation over the Christmas break may be submitted by email to housing@uleth.ca. All cancellations received after a student has moved into residence are subject to one calendar month's notice. Failure to provide this notice will result in next month's rent charges.

Fees

Rates for single student housing (Traditional-Style Dorms, Apartments and Townhomes) must be paid at the beginning of each term.

The Residence Dining Plan must be paid in full by the beginning of the fall term.

A utility surcharge may be levied to offset increased utility costs due to the effects of deregulation and the resulting inflationary impact.

Rental rates include all utilities except telephone line and internet access and are based on a two-term (single) or 12-month contract. Arrangements may be made with Housing Services for a summer contract for single students (May-August).

For more information on current fees, please see www.uleth.ca/housing/single-students.

Residence Network Access Fee

All residence bedroom spaces are equipped with the VoIP (Voice over Internet Protocol) communication system, which provides each resident with Internet access and a telephone in their room. The system allows for efficient communication within residence for emergency response in the event of critical incidents. A mandatory fee is levied to each resident per term for this service. All residence spaces are equipped with wireless internet access.

Organization of Residence Students (ORS)

The ORS (a Students' Union club) provides community development opportunities to meet, interact and socialize in the academic atmosphere for the benefit of each member and

the community as a whole. A \$47.50 membership fee is levied to each resident per term.

Policies

The University has policies, regulations and programs to provide for students' personal, academic, social and cultural growth, as well as their privacy and well-being. Breach of these policies and certain Criminal Code offences will be grounds to terminate the students' use agreements and evict them from University Housing. Housing policies are available online (refer to the *Residence Community Handbook*).

All students living on campus are required to participate in a mandatory tenant insurance program offering students liability and contents coverage.

Summer Housing and 12-Month Contracts

Students working or studying in Lethbridge over the summer are invited to stay in our residence. Special contract terms and rates are available. Accommodation is available in residence from approximately May to August for summer session students. Discounts of 20-40% are available for on-campus summer accommodations. Discounts of two months free rent are also available for 12-month contracts for students starting in September. Housing Services also offers a Summer Room Hold Program for students wishing to hold their room or store their belongings over the summer months.

Mailing Address:

Housing Services
University of Lethbridge
4401 University Drive
Lethbridge, Alberta, T1K 3M4

Office: C420

Phone: 403-329-2584

Fax: 403-329-2030

Email: housing@uleth.ca

Website: www.uleth.ca/housing

18. INDIGENOUS STUDENT AFFAIRS

Indigenous Student Affairs is a free, confidential service housed in the Paterson Center, that is also the site of Iikaiskini FNMI Gathering Place, for those students who self-identify as First Nations, Non-Status, Métis, and Inuit peoples. The primary role of the Indigenous Student Affairs office is to guide, encourage and empower students in the University environment.

Indigenous Student Affairs can help you make the transition to the University of Lethbridge by helping you access services such as:

- Housing Information (www.uleth.ca/housing)
- Off-Campus Housing (www.uleth.ca/offcampushousing)
- Parking (www.uleth.ca/facilities/parking)
- Academic Advising (www.uleth.ca/ross/academic-advising)
- Scholarships and Loans information (www.uleth.ca/ross/student-finance)
- Elder Support Program (www.uleth.ca/future-student/elder-support-program)
- Counselling Services (www.uleth.ca/counselling)
- Career Bridge (www.uleth.ca/coop)
- Student Success Centre (www.uleth.ca/student-success-centre)
- Accommodated Learning Centre (www.uleth.ca/ross/accommodated-learning-centre)

- Academic Writing Centre (www.uleth.ca/artsci/academic-writing/writing-centre)
- University of Lethbridge First Nations', Métis, and Iniskim Alumni Chapter (www.uleth.ca/alumni/first-nations-metis-inuit-fnmi-alumni-chapter)

The Eaglesnest listserve is the primary email communication highway for registered University of Lethbridge Aboriginal students who have self-identified on their application form. University announcements, community resources, and job postings are some of the communications that the Eaglesnest forwards. Updates to events are also available on the University of Lethbridge website.

Phone: 403-394-3902

Email: fnmiss@uleth.ca

Website: www.uleth.ca/first-nations-metis-inuit

19. INFORMATION TECHNOLOGY SERVICES

The Department of Information Technology Services provides computer support to the University community.

Student computing facilities are supported by the ITS Department at the following locations:

AH147	1 general purpose PC lab	Open M-F 6:00 AM-10:00 PM
B5 Labs	3 PC labs and 1 Mac lab (B515, B519, B520 & B516)	Open 24 hours (Swipe card access to B519 & B520 between 6:00 PM-8:00 AM)
E6 Labs	3 general purpose PC labs	Open 24 hours
W650 Lab (Student Study Centre)	Mix of PC/Mac computers	Open 24 hours
Library	50 PC computers	Library hours
Email stations	50 PC computers	Open 24 hours

Additional lab information can be found on the Information Technology website (www.uleth.ca/information-technology/resources/lab-resources).

All computer facilities are equipped with a broad selection of current software that include Office Suite, productivity and creative packages, as well as a large selection of class-specific software. Printing is available for a nominal fee using the campus *Bridgebucks* card system.

A number of other departments maintain additional computing facilities, including Computer Science (60 Linux stations), Geography (25 PC computers), and Modern Languages (36 PC computers).

Wireless networking is available in most areas on campus. Service is available via two different methods:

Enhanced Wireless (Student @ UofL)

The enhanced network will require you to enter your student username and password and provides access to additional services that are not available to guests. This is the preferred network for general student use.

Guest Access Wireless (Guest @ UofL)

This guest access will provide basic web browsing and access to email services. Simply connect to the "Guest @ UofL" wireless network and you will be able to browse the web and access email.

All students on campus automatically receive an email account at no charge. Check out the Computer Use Policy: www.uleth.ca/policy/computer-use-policy

Phone: 403-329-2490

Website: www.uleth.ca/its

20. LETHBRIDGE PUBLIC INTEREST RESEARCH GROUP (LPIRG)

The Lethbridge Public Interest Research Group (LPIRG) is a student-funded, student-directed, not-for-profit organization providing resources for undergraduate students to engage with economic, environmental, and social justice issues. LPIRG embraces plurality and participation and encourages students to critically evaluate the institutions and systems in which they take part. LPIRG assists students in translating their knowledge through research, education, and action to serve public interest.

LPIRG receives \$5 from each University of Lethbridge undergraduate student in the fall and spring terms (this levy is fully refundable if a student so chooses.) LPIRG uses this money to fund student research, events and projects demonstrated to be in the public interest, as well as to provide additional administration, organization and information resources that allow students to become engaged citizens.

Funding can be accessed for undergraduate research, special events, and working groups (collectives of students and possibly community members who work together on a public interest issue; groups may focus on research, events, action, publications or other activities, and have long-term goals). LPIRG also facilitates opportunities for skill development through educational events, public campaigns and partnerships with community organizations.

To find out more about LPIRG funding, events, volunteer opportunities, or the opt-out process, please contact us.

Office: SU242

Phone: 403-332-5243

Email: pirg@uleth.ca

Website: www.lpirg.org

21. LIBRARY

The University of Lethbridge Library provides research support to patrons; access to a diverse and large collection of digital and physical resources, both on- and off-site; collaborative and quiet study spaces for groups and individuals; and creative facilities. Please see **University Library (p. 65)** for more information.

22. MAIL SERVICES

The Mail Services Office, located in the Park Way Service Complex, is not a full-service outlet for the public. Pre-stamped outgoing mail may be deposited any time in the red mail boxes located in the following places:

- University Hall - Level 6 (across from east patio)
- Students' Union Building - Level 2 (across from the Bookstore)
- Physical Education Building - Level 2 (across from the Recreation Services Office)

Postage stamps may be purchased at the Students' Union *Rockerman's Service Centre* (SU232).

23. OFF-CAMPUS HOUSING

Enrolment Services maintains a current off-campus housing registry listing properties available for rent in Lethbridge. You can access the list online. We can also email you an up-to-date list of available options. Please contact Off-Campus Housing for more information.

Phone: 403-329-2092

Website: www.uleth.ca/offcampushousing

24. OFFICE OF THE ASSOCIATE VICE-PRESIDENT (STUDENTS)

The Office of the Associate Vice-President (Students) oversees Student Affairs, consisting of the Registrar's Office, Enrolment Services, and Student Services. Student Services consists of the Accommodated Learning Centre, Counselling and Career Services, Health Centre, Indigenous Student Affairs, and Scholarships and Student Finance. Details of services provided by each of these units, as well as by the Registrar's Office, are available elsewhere in this Part of the Calendar.

Office: AH148

Phone: 403-332-4432

25. PRINTING SERVICES

Printing Services provides quality material and service in the following areas: offset printing and design, wide-format printing, custom learning resources, high-speed copying and vanda card-operated copiers.

Copy Centre (Park Way Service Complex)

With fast turnaround times, the Copy Centre offers high-speed photocopying, digital printing, black and white and/or colour copies, collating, folding, stapling, hole punching, and a number of different covers and bindings.

Note: Copyright permission is the responsibility of the individual requesting copies and must be obtained from the author and/or publisher of the work. For more information regarding copyright, please contact the Office of the University Copyright Advisor (email: copyright@uleth.ca; phone: 403 332-4472).

Offset Printing and Design (Park Way Service Complex)

Typesetting and design, offset printing and Printing Services administration are located in the Park Way Service Complex. Everything from business cards and forms to full-colour posters, (including wide-format printing up to 42 inches), banner stands, and complete book production may be accommodated. We can take any printing project from an idea to the design and layout stage through to production, finishing, and binding.

Venda Photocopiers/Printers

Venda card-operated photocopiers/printers are located throughout the Library, in the Level 6 Atrium W650, Anderson Hall, University Hall D6 and E6, the computer labs, as well as in the new Science Commons building SA 7010, SA 7210 and SA 9004. For information on how to print and copy on campus go to www.uleth.ca/printing/follow-you-printing.

The vanda copiers accept Bridge Bucks using your University of Lethbridge Campus ID Card. For more information regarding Bridge Bucks and adding value to your account, please visit www.uleth.ca/my-card/bridge-bucks-information.

Hours: Monday to Friday 8:30 am - 12:00 pm, 1:00 - 4:30 pm

Location: Park Way Service Complex

Phone: 403-329-2625

Website: www.uleth.ca/printing

26. REGISTRAR'S OFFICE

The units located in the Registrar's Office include Admissions and Transfer; the Information Centre; Student Records and Registration; Curriculum Management Services; and the Student Information System (SIS) team. This office is responsible for managing admissions; administering course registration and maintaining the official academic student record; producing the Academic Calendars; creating and maintaining the Timetable and ad hoc bookings; and issuing academic transcripts.

Website: www.uleth.ca/ross

27. SPORT AND RECREATION SERVICES

Pronghorn Athletics (403-329-2681)

The intercollegiate athletics program has been an integral part of student life at the University of Lethbridge since 1969. Any full-time student interested in participating in an athletic activity at a high competitive level is eligible to try out.

Currently, the University of Lethbridge has the following athletic teams:

- Men's and Women's basketball
- Men's and Women's ice hockey
- Men's and Women's soccer
- Men's and Women's swimming
- Men's and Women's track and field
- Women's rugby

The University of Lethbridge Pronghorns compete in the Canada West Conference of U Sports. The Pronghorns are full members of U Sports, which represents universities across Canada and operates annual National Championships for the four university conferences across the country.

As a result of the high level of athletic competition, many Pronghorn athletes have represented the province and the country in national and international competitions. This speaks well for the calibre of coaching and the quality of athletes at the University of Lethbridge.

All student athletes who maintain the appropriate academic standing are eligible for financial assistance, in the form of scholarships, awards and grants through Scholarships and Student Finance.

For those students who are interested in athletics but are not able to compete, the Athletics program offers other opportunities, such as team managers, athletic trainers, game day staff, event coordinators and volunteers.

University of Lethbridge students are entitled to reduced admission prices to all Pronghorn home athletic events.

Website: www.gohorns.ca

Facilities and Services

The 1st Choice Savings Centre for Sport and Wellness and Community Stadium facilities at the University of Lethbridge include the following (hours of operation may vary):

- Fitness Centre
- Ascent Climbing Centre
- Max Bell Aquatic Centre
- Triple gymnasium (seating for 2,000 spectators)
- 4-lane 200-metre indoor track
- Multi-purpose rooms
- Dance and fitness studio
- Research laboratories
- Kinesiology classrooms
- Pronghorn Ticket Centre

- Stadium - artificial turf, lights, 8-lane 400-metre track, additional grass field

Customer Service Centre

The Customer Service Centre is located on Level 1 of the 1st Choice Savings Centre for Sport and Wellness. Memberships, lockers and registrations for recreation programs are sold at this location. This is also the controlled access point to all facilities and locker rooms. Your Campus ID Card is required for ALL access. This includes all academic classes, locker room access and casual use.

Fitness Centre/Indoor Track

The Fitness Centre is located in PE156. Access to the indoor track is via the stairwell in the Fitness Centre.

Max Bell Aquatic Centre

This 50-metre training facility features several springboards, a 3-metre and 5-metre dive tower, and a 12.5-metre x 21-metre movable floor.

Please visit our website for swim times: <http://bit.ly/maxbellschedule>.

Triple Gymnasium

Please visit our website for Open Gym times: www.uleth.ca/sportrec.

Ascent Climbing Centre

Come check out the 53-foot-high wall and additional bouldering cave.

Please visit our website for Climbing Centre times: www.uleth.ca/sportrec.

Stadium

Located on the south end of the campus. Please visit our website for open times and details (www.uleth.ca/sportrec).

Locker Rooms - Men and Women

Both men's and women's main locker rooms have steam rooms. Access to the locker rooms requires your Campus ID Card as these rooms are beyond the Customer Service Centre, which is our controlled access point. We also have a dedicated family change room as well as day use locker rooms for men and women.

- Towel service lockers
Available for one-, two- or three-term rental
- Textbook lockers
Level 2 - PE Building
Level 4 - University Centre for the Arts (Music department)
Level 7 - University Centre for the Arts (Music department)
Level 8 - University Centre for the Arts (Art department)
- Bike lockers
Available at various locations on campus.

Office: PE160

Risk Awareness

Sport and Recreation Services will not be held liable for any injury or death resulting from the use of Sport and Recreation Services equipment or participation in any activity/program nor will be responsible for: medical or dental expenses; ambulance expenses; or damage, theft or loss of personal

equipment, eye glasses or contact lenses incurred while participating in any activity/program.

Each person has a different capacity for participating in physical activities, programs and services. You should be aware that all activities, services and programs offered are educational, recreational or self-directed and may involve inherent risks, and that your participation in any and all activities, facilities, programs and services provided by Sport and Recreation Services is strictly voluntary.

Your participation in any and all activities, facilities, programs and services provided by Sport and Recreation Services is at your own risk and you assume full responsibility for your choice to use and/or apply the information or instruction you receive and assume any and all risk of injury, illness, damage, loss or expense that might result.

Part of the risk involved in undertaking any exercise activity or program is related to your own state of fitness or health. It is understood that your choice to participate in any activity, service or program brings with it the assumption of those risks stemming from your choices and the fitness, health, awareness, care and skill that you possess and use. If any risk factors related to engaging in physical exercise pertain to you, it is to be understood that you should have received clearance from your physician to engage in physical activities of the sort or type you have chosen to participate in.

Facility Bookings

For all facility bookings and rentals, please contact us.

Phone: 403-329-2658

Programming

Sport and Recreation Services offers a diverse selection of seasonal recreation and fitness activities and programs including, but not limited to, the following:

- Swim lessons - private and semi-private lessons for both children and adults
- Climbing courses
- Dance classes
- First Aid and CPR-C and Oxygen Therapy courses
- Fitness - personal training and assessments
- Fitness classes
 - Cycling
 - Group
 - Prenatal
 - Seniors
 - Fitball
 - Walking
- High-performance training
- Intramural sports
- Sport clubs
 - Badminton
 - Curling
 - Dance/Cheer
 - Field lacrosse
 - Golf
 - Ringette
- Kayaking and Stand-up Paddle Boarding
- Lifeguarding and Instructor courses
- Mermaid parties
- Martial arts
- Sport camps
- Yoga

NOW AVAILABLE – Online registration for most programs. Please visit <https://communityprograms.ulethbridge.ca>.

For further information or to register for programs please contact the Customer Service Centre.

Full programming information is described on our website.

Phone: 403-329-2706

Website: www.uleth.ca/sportrec

28. STUDENT AWARDS - SCHOLARSHIPS AND BURSARIES

The University of Lethbridge offers a wide range of awards that serve to recognize the achievements of students who pursue their university education at the University of Lethbridge. These awards are granted based on academic achievement as well as other factors (e.g., financial need, leadership potential, community involvement, artistic ability).

Students are eligible to apply for awards if they are:

- An applicant entering the University from high school or from another post-secondary institution; or,
- A student continuing his/her studies at the University of Lethbridge.

While not all awards require the student to apply, an application is strongly recommended for students who feel that they may qualify for awards. Application forms for most awards are online on the Bridge and information on procedures are available at Scholarships and Student Finance, located in Anderson Hall or online.

Deadlines for applications are:

Board of Governors' Admission Scholarships

December 15 (a completed Admission application is required)

Entrance Awards - High School students

March 15

Entrance Awards - Transfer students

June 15

Undergraduate Awards - Continuing students

May 1

General Policies and Procedures

For a complete description of awards administered by the University of Lethbridge, please refer to the Scholarships and Student finance website.

Liability - The University assumes liability for the payment of scholarships, bursaries, prizes and other awards only to the extent that expected gifts from donors or returns from particular investments of endowed funds are realized.

Application - To be eligible for awards, application forms must be submitted via the Bridge no later than the designated date. Application forms and information are available from the website.

A student who has not applied for awards cannot claim for the right of consideration by the University.

Academic records - Only academic records from the last five years will be considered for measurement of academic achievement.

Interrupted studies - 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 attendance at the University of Lethbridge subject to the rules guiding undergraduate awards.

Conditions - Unless otherwise stated, awards made to full-time students are conditional on the student proceeding with full-time studies at the University of Lethbridge in the fall and spring terms following the award. Failure to meet this condition may result in the forfeiture of any unpaid balance.

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.

Deductions - The University may deduct from award payments any funds owed to the University.

Tax receipts - T4A forms will be issued to award recipients by the University or any other issuing agency in the spring following the year of the award.

Deferral - A deferral postpones the payment of a financial award until a student is registered full-time at the University of Lethbridge. A request for a deferral must be submitted in writing by the student to the Manager, Scholarships and Student Finance by October 31 for the fall term and February 28 for the spring term. Justifiable reasons for deferral include:

- unavoidable circumstances; an award may be deferred when circumstances which are substantially beyond the student's control prevent his/her full-time registration in the term for which an award was made.

Office: AH115

Phone: 403-329-2585

Website: www.uleth.ca/ross/student-finance/awards

29. STUDENT FINANCE - GOVERNMENT STUDENT LOANS AND GRANTS

The Federal, Provincial and Territorial governments of Canada provide financial assistance to help students in the pursuit of post-secondary education. This assistance is provided in the form of loans and grants and funds allotted are dependent on the student's level of financial need and personal circumstances.

Scholarships and Student Finance provides advice with regard to all government student assistance programs.

Government student loans are interest-free while students are registered full-time (min. 9.0 credit hours/term) at a post-secondary institution. It is the student's responsibility to provide appropriate proof of enrolment to government loan lenders while in full-time studies in order to avoid entering repayment (commences six months after ceasing to be a full-time student).

Students in receipt of government sponsored student loans who drop from full-time studies will be reported to the government and enter repayment following a six month grace period.

Applications for student loans can be submitted in the summer prior to the fall term, for each academic year (September–April).

Outstanding tuition and fees may be remitted directly from the student's loans and grants, upon disbursement.

For application forms and more information, please visit Scholarships and Student Finance, located in Anderson Hall.

More information on Government Student loan programs is available from the following website:

www.esdc.gc.ca/en/student_loans/provincial.page

Office: AH115

Phone: 403-329-2585

Website: www.uleth.ca/ross/student-finance

30. STUDENTS UNION

The Students' Union exists to provide advocacy and services for its members. It represents students on University of Lethbridge internal committees, as well as Federal and Provincial committees and agencies, which determine education policies. Promoting the rights and welfare of all University of Lethbridge students is the Students' Union's primary concern.

Any undergraduate student registered at the University may run for one of the 21 positions on the Students' Council (some restrictions may apply). Elections are held in February or March each year with the term of office running May 1 to April 30. Council meetings are held regularly and are open to all students.

Students' Union Building (SUB)

Opened in the fall of 1990, the SUB is a joint project of the Students' Union, the University of Lethbridge and the Government of Alberta. Overlooking the Oldman River Valley, the Students' Union owns and occupies 56 percent of the SUB, featuring a The Zoo pub, conference and major event facilities, food kiosks, convenience store, office suites, and club rooms. *The Meliorist*, CKXU, Campus Women's Centre, Pride Centre, Lethbridge Public Interest Research Group (LPIRG), University of Lethbridge Bookstore, Health Centre, Enrolment Services, the International Centre, Accommodated Learning Center exam rooms, and the Registrar's Office are also located in the SUB.

Committee Representation

Student representatives serve on various University committees, ensuring the student perspective on matters such as program structure and content, degree requirements, tuition fees, and academic regulations are represented. Students interested in committee work or additional information are invited to visit the Students' Union Office or contact their VP Academic. The following committees are only a sampling of those requiring student representation each academic year:

General Faculties Council (GFC) Committees

- General Faculties Council
- General Faculties Executive Committee
- GFC Admission Standards Committee
- GFC Curriculum Coordinating Committee
- GFC Grade Appeals Committee
- GFC Honorary Degrees Committee
- GFC Library Committee
- GFC Policy Appeals Advisory Committee
- GFC Space Allocation Committee
- GFC Student Awards Committee

Senate Committees

- Senate
- Senate Executive Committee
- Senate Honorary Degree Search Committee
- Senate Honorary Degree Committee
- Senate Volunteer Award Committee

Arts and Science Committees

- Arts and Science Committee on Research and Teaching

- Arts and Science Council
- Arts and Science Curriculum Coordinating Committee
- Arts and Science Executive Committee
- Arts and Science Planning Committee

Other Committees

- Bookstore Advisory Committee
- Convocation Committee
- Distinguished Teacher Selection Committee
- Environmental Sustainability Advisory Committee
- Fee Review Committee
- Resource and Teaching Development Committee
- Survey Review Committee

For more information please visit our website or call us.

Rockerman's Service Centre

Rockerman's Service Centre, located on Level 2 of the Students' Union Building, is the campus convenience store. Students can purchase confectionary items, newspapers, lunch items and much more. Lethbridge Transit Breeze cards are available to purchase in Rockerman's. Students also have access to fax and photocopier services, as well as microwaves.

Location: SU232

Food Court

The Food Court is located on Level 2 of the Students' Union Building and offers a variety of food to please your palate.

Baadshah Cafe: Indian Cuisine

Campus Coffee Company: An assortment of specialty coffees, espresso drinks and muffins

Hiroba: Chinese food with your choice of buffet-style or made-to-order menu and daily specials

Icy's: A variety of tacos and similar-type salads. Includes a breakfast menu and healthy frozen yogurt treats

Subway: Gourmet submarine sandwiches on fresh-baked bread, soups and cookies

Tivoli: Includes a salad bar, chicken and fries, as well as a number of pasta dishes and finger foods

Union Eats: Offers pizza, hot dogs, variety of fast foods, unique food platters, and specialty items including vegetarian and vegan options

Galileo's Lounge

Galileo's is located at the north end of the Food Court. This location offers a spacious sofa lounge, projector and screen, comfortable seating, and beautiful views of the campus. If you are interested in reserving this room for a club event, conference, meeting, or other special occasion please contact the Students' Union.

Additional Information Resource

Visit our website to find more information about our organization, the council and staff, and more details about the services we have to offer.

Office: SU180

Phone: 403-329-2222

Website: www.ulsu.ca

31. THE MELIORIST PUBLISHING SOCIETY (STUDENT PUBLICATION)

The Meliorist has been the student publication at the University of Lethbridge since 1967. It offers a monthly magazine service and provides an open forum for all students of the University community. *The Meliorist* Publishing Society is an autonomous

body that determines the editorial direction of the publication, with students providing the content. *The Meliorist's* staff, contributors, and volunteers gain first-hand knowledge in writing, editing, photography, layout and management of a monthly magazine.

Since its inception, the publication has embraced the philosophy of Meliorism, which holds that the world naturally tends to get better as the result of human effort.

Office: SU172

Email: info@themeliorist.ca

Website: www.themeliorist.ca

32. UNIVERSITY ADVANCEMENT

University Advancement works to enhance the reputation, build relationships and seek resources necessary to support the student experience, teaching, and research goals of the University of Lethbridge.

Comprised of the Departments of Alumni Relations, Advancement Services, Development, Communications and Marketing, and Public Affairs and Government Relations, University Advancement reports to the Vice-President (Advancement) and are responsible for the coordination and management of the following:

- Alumni relations activities and the Alumni Association;
- Fundraising and sponsorship activity;
- Government relations;
- Media relations and public affairs activities;
- Social media coordination and management;
- Institutional marketing;
- Visual identity and branding;
- Internal and external communication coordination and management; and
- Publications and graphic design.

Office: A735 (Level 7)

Phone: 403-329-2582

Fax: 403-329-5130

Email: advancement@uleth.ca

33. WRITING CENTRE

The University's Writing Centre offers individual consultations with trained academic writing instructors and tutors to students from all Faculties and programs. The Writing Centre provides practical writing support that supplements in-class instruction and helps students understand a wide variety of writing assignments including research papers, summaries, critical essays, literature reviews, annotated bibliographies and lab reports. It also provides assistance with formatting, thesis development, essay organization and grammar and punctuation.

Appointments can be made online by visiting the Writing Centre website.

Office: L1010 (Library)

Website: www.uleth.ca/artsci/academic-writing/writing-centre

Carey Rowntree
 Isabel Russell
 Cyndi Starzyk--Frey
 Treena Tallow
 Jason VandenHoek
 Cyndi Vos
 Michael Warkentin
 Chief Convocation Marshal
 Secretary to the Senate:
 Lethbridge
 Blairmore
 Lethbridge
 Lethbridge
 Lethbridge
 Lethbridge
 Lethbridge
 Noella Piquette
 Sheena Olson, Governance
 Officer

Jay Gamble
 Atif Khaliil
 Chris Mattatall
 Kaz Mazurek
 Josephine Mills
 Afroz Moatari-Kazerouni
 Tracy Oosterbroek
 Pei Shao

Library: Paula Cardozo
 Graduate Studies: Jerimy Cunningham
 Liberal Education: Brendan Cummins
 Appointed Members: David Kaminski
 Kathleen Massey
 John Sheriff
 Graduate Students: Annabella Ansah
 Nathir Haimoun
 Student Members: Bailey Harray
 Holly Kletke
 Jordan Miles
 Ryan Munn
 Brennan Nikolai-Wilson
 Ethan Pullan
 Brianna Rogers
 Mark Serebrynsky
 Secretary to GFC: Jodie Gallais, Director,
 University Secretariat
 Vicki Grisack, Records
 Administrator

GENERAL FACULTIES COUNCIL

President and Vice-Chancellor
 (Chair): Michael J. Mahon
 Provost and Vice-President
 (Academic): Andrew Hakin
 Vice-President
 (Finance and Administration): Nancy Walker
 Vice-President (Research): Erasmus Okine
 Vice-President (Advancement): Vacant
 Interim Dean of Arts and Science: Matt Letts
 Dean of Education: Craig Loewen
 Dean of Fine Arts: Mary Ingraham
 Dean of Health Sciences: Robert Wood
 Dean of Liberal Education: Shelly Wismath
 Dean of the Dhillon School of
 Business: Kerry Godfrey
 Associate Vice-President (Research)
 and Dean of Graduate Studies: Jackie Rice
 University Librarian: Chris Nicol
 Interim Registrar: Kathleen Massey
 Faculty of Arts and Science: Carly Adams
 Kristine Alexander
 Rene Barendregt
 Louise Barrett
 Shawn Bubel
 Jim Byrne
 Jennifer Copeland
 Gideon Fujiwara
 Shawn Johnsrude
 Heather Ladd
 Jason Laurendeau
 Jennifer Mather
 Kent Peacock
 Michael Stingl
 John Vokey
 Patrick Wilson
 Faculty of Education: Nancy Grigg
 Dawn Burleigh
 Faculty of Fine Arts: Justin Blum
 James Dobbie
 Ryan Harper-Brown
 Andrew Stewart
 Faculty of Health Sciences: Cheryl Currie
 Lisa Howard
 Claudia Steinke
 Dhillon School of Business: John Usher
 Hamed Ghanbari
 Deb Jarvie
 Statutory Student Members: Andrew Gammack
 Kate Potts
 Statutory Graduate Student Member: Lauren Zink
 Appointed Faculty: Julia Brassolotto
 Paula Cardozo
 Brendan Cummins
 Jerimy Cunningham
 Leanne Elias

ALUMNI ASSOCIATION

President: Jason Elliott
 Past President: Michael Gabriel
 Vice-President: Jason Shriner
 Treasurer: Nick Gabbin
 Secretary: Tony Montana
 Board of Governors
 Representatives: David Johnson
 Senate Representatives: Jeff Milner
 Bill Spenceley
 Directors: Iso Ogumbor
 Neal Shade
 Young Alumni Director: Brenna Scott
 Calgary Chapter President: Steve Palmer
 Iniskim Indigenous Chapter President: Mike Bruised Head
 Students' Union Representative: Andrew Gammack
 Graduate Students' Representative: Lauren Zink
 Manager, Alumni Relations: Lyndsay Montana
 Honorary President: Michael J. Mahon
 Honorary Treasurer: Nancy Walker
 Honorary Director: Leroy Little Bear

CHANCELLORS EMERITI

Louis S. Turcotte (1968–1972)
 James Oshiro (1972–1975)
 Van E. Christou (1975–1979)
 Islay M. Arnold (1979–1983)
 William S. Russell (1983–1987)
 Keith V. Robin (1987–1991)
 Ingrid M. Speaker (1991–1995)
 Robert Hironaka (1995–1999)
 James D. Horsman (1999–2003)
 Shirley DeBow (2003–2007)
 Richard Davidson (2007–2011)
 Shirley McClellan (2011–2015)
 Janice Varzari (2015–2019)

BOARD OF GOVERNORS CHAIRS EMERITI

Neil D. Holmes (1967–1974)
 Blaine Thacker (1974–1978)
 R. Philip M. North (1978–1984)
 Dennis S. O'Connell (1984–1989)
 David W. Hughes (1989–1995)
 Gordon G. Paterson (1995–2001)
 Terrance E. Royer (2001–2006)
 Robert J. Turner (2007–2012)
 Gordon Jong (2012–2016)

PRESIDENTS EMERITI

W.A.S. 'Sam' Smith
 (President and Vice-Chancellor, 1967–1972)
 William E. Beckel
 (President and Vice-Chancellor, 1972–1979)
 John H. Woods
 (President and Vice-Chancellor, 1979–1986)
 Howard E. Tennant
 (President and Vice-Chancellor, 1987–2000)
 William H. Cade
 (President and Vice-Chancellor, 2000–2010)

PAST PRESIDENTS

Russell J. Leskiw
 (Acting President, 1967)
 W.A.S. 'Sam' Smith
 (President and Vice-Chancellor, 1967–1972)
 William E. Beckel
 (President and Vice-Chancellor, 1972–1979)
 John H. Woods
 (President and Vice-Chancellor, 1979–1986)
 Gerald S. Kenyon
 (Acting President, 1986–1987)
 Howard E. Tennant
 (President and Vice-Chancellor, 1987–2000)
 William H. Cade
 (President and Vice-Chancellor, 2000–2010)

VICE-PRESIDENTS EMERITI

Owen Holmes
 (Academic)
 Gerald S. Kenyon
 (Academic)
 Séamus O'Shea
 (Academic)
 Eric Hillman
 (Administration)
 Dennis Fitzpatrick
 (Research)

ASSOCIATE VICE-PRESIDENTS EMERITI

Leslie Lavers
 (Student Services and Registrar)
 Don MacDonald
 (Human Resources)
 Karen Clearwater
 (Financial Planning)

DEANS EMERITI

Awny F. Cassis (Faculty of Arts and Science)
 Robert Cook (Faculty of Fine Arts)
 Bhagwan Dua (Faculty of Arts and Science)
 George Lerner (Faculty of Management)
 Keith McCurdy (Student Affairs)
 Myrna Green (Faculty of Education)
 Vondis Miller (Faculty of Fine Arts)
 Eric Mokosch (Faculty of Education)
 Una Ridley (School of Health Sciences)
 Chesley Skinner (Faculty of Fine Arts)

CHIEF LIBRARIAN EMERITUS

Donald Wick

ASSOCIATE DEANS EMERITI

Laurence Hoyer (Faculty of Arts and Science)
 Christopher Bender (Faculty of Arts and Science)
 Brian Parkinson (Faculty of Fine Arts)

EXECUTIVE DIRECTOR EMERITI

Doug Parker
 (Facilities)

STUDENTS' UNION PAST PRESIDENTS

John Brocklesby (1967–1968)
 Richard Wutzke (1968–1969)
 Lamont Nielson (1969–1970)
 Robin Dann (1970–1971)
 Ken Runge (1971–1972)
 Jessie Snow (1972–1973)
 Khym Goslin (1973–1974)
 Darryl Ross (1974–1975)
 Lee Ens (1975–1976)
 Wayne Mackay (1976–1977)
 Howard Reid (1977–1978)
 Pat Dortch (1978–1979)
 Alan Murray (1979–1980)
 Rudy Peters (1980–1981)
 Barry Weintraub (1981–1982)
 Chuck Cosgrove (1982–1983)
 Mike McPhail (1983–1984)
 Larry Glazer (1984)
 Tracy Hembroff (1984–1985)
 Aaron Engen (1985–1986)
 Dan Laplante (1986–1987)
 Jason Slemko (1987–1988)
 Jon Oxley (1988–1990)
 Terry Whitehead (1990–1991)
 David Legg (1991–1992)
 Justin Penny (1992–1993)
 Poul Mark (1993–1994)
 Humberto Aspillaga (1994–1995)
 Arthur Wong (1995–1996)
 Jason Shriner (1996–1997)
 Jon Wescott (1997–1998)
 Ryan Dunford (1998–1999)
 Bonnie Androkovich (1999–2000)
 Dezmond Belzeck (2000–2001)
 Matthew McHugh (2001–2002)
 Melanee Thomas (2002–2003)
 Paul Daniels (2003–2004)
 Lorelee Edwards (2004–2005)
 Tyler Tanner (2005–2006)
 Dustin Fuller (2006–2007)
 Kelly Kennedy (2007–2008)
 Adam Vossepoel (2008–2009)
 Jeremy Girard (2009–2010)
 Taz Kassam (2010–2011)
 Zack Moline (2011–2012)
 Armin Escher (2012–2013)
 Shuna Talbot (2013–2014)
 Sean Glydon (2014–2015)
 Brenna Scott (2015–2016)
 Cameron Howey (2016–2017)
 Hailey Babb (2017–2018)
 Laura Bryan (2018–2019)

AWARDS OF DISTINCTION

UNIVERSITY OF LETHBRIDGE AWARDS

HONORARY DEGREE RECIPIENTS

- 1968** None awarded
- 1969** *Doctor of Laws*
James Gladstone
J.H. Sissons, B.A.
- 1970** *Doctor of Laws*
Murray Adaskin, D.Mus., O.C.
A.E. Palmer, B.Sc., M.Sc.
- 1971** *Doctor of Laws*
Anora Brown
- 1972** *Doctor of Laws*
Roloff Beny, B.A. (Fine Arts),
M.A. (Fine Arts), O.C.
Ernest Manning, C.C.
Chester Ronning, C.C.
W.H. Swift, B.A., M.A., Ph.D.
L.S. Turcotte, LL.B.
Doctor of Literature
Claude Bissell, M.A., Ph.D., C.C.
- 1973** *Doctor of Laws*
James Cousins, B.A., M.A.
Farley Mowat, B.A., O.C.
- 1974** *Doctor of Arts and Science*
Immanuel Velikovsky, M.D.
Doctor of Laws
Gerald Tailfeathers
- 1975** *Doctor of Laws*
N.D. Holmes, B.Sc., M.Sc., Ph.D.
H.K. Rasmussen, B.Sc., M.Sc., Ph.D.
- 1976** *Doctor of Laws*
Alex Johnston, B.Sc., M.Sc.
Gabrielle Roy, C.C.
- 1977** *Doctor of Laws*
Andrew Russell, C.M.
Doctor of Science
Ruby Larson, B.A., M.A., Ph.D.
- 1978** None awarded
- 1979** *Doctor of Dramatic Arts*
John Neville
Doctor of Laws
Harry Strom
- 1980** *Doctor of Laws*
Hedwig D. Bartling
Doctor of Science
Max Wyman, B.Sc., Ph.D., O.C.
- 1981** *Doctor of Laws*
Liona Boyd, B.Mus., C.M.
Arthur Erickson, B.Arch., D.Eng.,
C.C.
Barbara Elizabeth Hope Johnson
Cleo Mowers, B.A.
Frank Lynch-Staunton, B.Eng.
Peter Ustinov
Doctor of Letters
Robertson Davies, B.Litt., C.C.
- 1982** *Doctor of Humanities*
Terence M. Penelhum, B.Phil., M.A.
Doctor of Laws
Gwen Pharis Ringwood, B.A., M.A.
Nettie Ware
- 1983** *Doctor of Laws*
Anne Campbell, C.M.
Doctor of Letters
Albert Bandura, B.A., M.A., Ph.D.
- 1984** *Doctor of Laws*
Dale B. Bartlett
V.E. Christou, D.D.S.
Doctor of Science
Archibald Stalker, B.A., M.Sc., Ph.D.
- 1985** *Doctor of Laws*
A.C. Anderson, Phm.C., C.M.
S. Robert Blair, B.Sc., Ph.D., C.C.
H. Martin Kenney, C.M.
Doctor of Science
Helen Hogg, A.M., Ph.D., C.C.
- 1986** *Doctor of Laws*
Eva Brewster
Mel Hurtig, O.C.
Peter McLaren Roberts, M.A., M.A.
Doctor of Science
Brenda Atkinson Milner, B.A., M.A.,
Ph.D., O.C.
- 1987** *Doctor of Laws*
W.Z. Estey, B.A., LL.B., LL.M., C.C.
Y. Kawamura, C.M.
Colin Low, C.M.
Doctor of Science
J.C. Polanyi, B.Sc., M.Sc., Ph.D., C.C.
- 1988** *Doctor of Laws*
Tetsuo Aoki, B.Comm., B.Ed., M.Ed.,
Ph.D.
Islay May Arnold, O.C.
Onkar Prasad Dwivedi, B.Sc., M.A.,
M.A., Ph.D.
Peter Loughheed, B.A., LL.B., M.B.A.,
C.C.
- 1989** *Doctor of Laws*
James Valentine Hogarth Milvain,
LL.B., O.C.
Masao Morimoto, B.A., M.A.
Yoshio Senda
Doctor of Letters
Sydney Wayne Jackman, B.S., M.A.,
M.A., Ph.D.
Doctor of Science
Loren Hepler, B.Sc., Ph.D.
- 1990** *Doctor of Laws*
Reed Cowley Ellison
Donald Southam Harvie, B.Sc.,
M.B.A., P.Eng., O.C.
Walter Alvah Samuel Smith, B.A.,
M.A., Ph.D.
Doctor of Letters
Robert Steven Patterson, B.Ed.,
M.Ed., Ph.D.
Doctor of Science
Frank Moore Cross, A.B., B.D., M.A.,
Ph.D.
- 1991** *Doctor of Laws*
Lawrence D. Halmrast
Joy Nozomi Kogawa, B.A., C.M.
Mary Elizabeth Munn, L.R.A.M.,
M.Mus., D.M.A., C.M.
Doctor of Letters
Harry William Arthurs, B.A., LL.B.,
LL.M., O.C.
Doctor of Science
Johan F. Dormaar, B.S.A., Ph.D.
- 1992** *Doctor of Laws*
Helen Manyfingers, C.M., B.Ed.
Keith Victor Robin, B.Ed., M.A., D.Ed.
William Stafford Russell, B.A., LL.B.
Doctor of Letters
Douglas Sanders, B.A., LL.B., LL.M.
Doctor of Science
Jan Bures, Ph.D.
- 1993** *Doctor of Laws*
Florence Dorothy Dalglish
Russell J. Leski, M.Ed., Ph.D.
Anne Wheeler, B.Sc., O.C.
Doctor of Science
Richard Edward Taylor, B.Sc., M.Sc.,
Ph.D.
- 1994** *Doctor of Humanities*
Douglas Joseph Cardinal,
B.Arch. (Hons.), O.C.
- 1995** *Doctor of Fine Arts*
Takao Tanabe, C.M.
Doctor of Laws
William E. Beckel, B.A., M.Sc., Ph.D.
Irene E. McCaugherty

- 1996** *Doctor of Humanities*
Donald H. Akenson, B.A., Ed.M., Ph.D.
- Doctor of Laws*
Cornelius Martens
- Doctor of Science*
Robert T. Golembiewski, B.A., M.A., Ph.D.
- 1997** *Doctor of Arts and Science*
Bertram Neville Brockhouse, B.Sc., M.Sc., Ph.D., C.C.
- Doctor of Laws*
Richard Keith Downey, Ph.D., O.C.
Margaret Elizabeth Southern, B.Ed., O.C.
George Millard Watson, B.Arch.
- Doctor of Science*
Earle Frederick Zeigler, B.A., M.A., Ph.D.
- 1998** *Doctor of Arts*
Gordon Kiyoshi Hirabayashi, B.A., M.A., Ph.D.
- Doctor of Laws*
Robert Bertram Church, B.Sc., M.Sc., Ph.D., C.M.
David William Hughes
- Doctor of Science*
Dorothy May Pringle, B.Sc.N., M.S., Ph.D.
- 1999** *Doctor of Laws*
Ovide Mercredi, LL.B.
Ralph Thrall Jr., B.Sc., M.B.A., B.S.
- Doctor of Letters*
Bas van Fraassen, B.A., M.A., Ph.D.
- Doctor of Science*
Keith Laidler, M.A., Ph.D.
- 2000** *Doctor of Laws*
Leonard Marvin Blumenthal, B.Ed.
William Maurice Sibley, B.A., M.A., Ph.D.
- Doctor of Science*
Marie Elizabeth Sanderson, B.A., M.A., Ph.D.
Cornelius Hendrik Vanderwolf, B.Sc., M.Sc., Ph.D.
- 2001** *Doctor of Fine Arts*
Lois Choksy, B.S., M.S.
Dennis Reid, B.A., M.A.
- Doctor of Laws*
Nellie Joy Cournoyea
Beverley Marian McLachlin, B.A., M.A., LL.B.
Ingrid Marie Speaker, B.A., B.Ed.
- Doctor of Science*
Marc Garneau, B.Eng., Ph.D., O.C.
Laughlin Barker Taylor, B.Sc., B.Ed., M.Sc.
- 2002** *Doctor of Fine Arts*
Howard Cable, C.M.
Joan Stuart Barclay Waterfield
- Doctor of Laws*
Orville Kope
- Doctor of Science*
Robert Hironaka, B.Sc., M.Sc., Ph.D.
Jonathan Schaeffer, B.Sc., M.Math., Ph.D.
- 2003** *Doctor of Arts*
John Hayden Woods, B.A., M.A., Ph.D., LL.D. (h.c.), F.R.S.C.
- Doctor of Fine Arts*
Zoran Kacic-Alesic, B.Eng., M.Sc.
- Doctor of Laws*
Donald Ross Getty, H.B.A., O.C.
Lanny King McDonald
Gwyn Morgan, P.Eng.
Ludvik Pahulje, Sr.
Ronald Satoshi Sakamoto
Raymond Albert Speaker, B.Ed., P.C., O.C.
- 2004** *Doctor of Arts and Science*
Leroy Robert Little Bear, B.A., J.D.
- Doctor of Fine Arts*
Susan Aglukark Poirier
Margaret Perkins Hess, B.A., B.F.A.
- Doctor of Laws*
Joyce Fairbairn, B.A.
Lois Elsa Hole, C.M., A.O.E.
James Deverell Horsman, C.M., Q.C., B.Comm., LL.B.
Thomas Dale Jackson
Kathleen Isobel Kerr
Yoshitaka Kinjo
Valerio Angelo Matteoti
Roland Philip Muir North, B.Sc., LL.B.
- Doctor of Science*
Maurice Martin Moloney, B.Sc., Ph.D.
- 2005** *Doctor of Arts and Sciences*
Owen Gordon Holmes, Ph.D.
- Doctor of Fine Arts*
William Fruet
- Doctor of Humanities*
Romeo Dallaire, B.Sc.
- Doctor of Laws*
Leonard Kane Haney
Edward Elliott McNally, LL.B.
Eric Patrick Newell, B.Sc., M.Sc.
Dennis Sidney O'Connell
Judith Grunfeld Shamiin, B.A., M.P.H., Ph.D.
Howard Edward Tennant, C.M., M.B.A., Ph.D.
Pamela Dawn Wallin, B.A.
- Doctor of Science*
Julie Payette, B.E., M.App.Sc.
- 2006** *Doctor of Laws*
Thomas Wilhelmus Droog
Catherine Anne Fraser, B.A., LL.D.
Allan Paul Markin, B.Sc.
John Digby Prentice, B.Sc.
Chava Rosenfarb
Lena Heavy Shields Russell
Blaine Allen Thacker, Q.C.
Willard H. Yuill
- Doctor of Science*
David William Schindler, B.Sc., Ph.D., O.C.
Roger Tomlinson, B.Sc., M.Sc., Ph.D.
- 2007** *Doctor of Arts and Science*
James Fraser Mustard, C.C., O.Ont., M.D., Ph.D., F.R.C.P.(C.), F.R.S.C.
- Doctor of Fine Arts*
John McEwen
- Doctor of Laws*
Gerald Thomas Conaty, B.A., M.A., Ph.D.
John A. Gogo
Harley Norman Hotchkiss, B.Sc., LL.D., O.C., P.Geol., A.O.E.
Terrance E. Royer, B.A.Sc. (B.A.)
- Doctor of Science*
Ronald James Gillespie, B.Sc., Ph.D., D. Sc.
James Edgar Till, B.A., M.A., Ph.D., O.C., O.Ont., F.R.S.C., D.Sc.
- 2008** *Doctor of Fine Arts*
Ben Heppner, O.C., B.Mus.
Wendy Louise Nielsen, B.Mus., M.Mus.
- Doctor of Laws*
Henry John Bergen, C.M.
Shirley DeBow, B.A.
Roelof Adriaan Heinen
Constance Prentice, B.Ed.
Sheila Weatherill, C.M., B.Sc.N.
- Doctor of Science*
Ian Q. Whishaw, B.A., M.Sc., Ph.D., F.R.S.C.
- 2009** *Doctor of Fine Arts*
Paul Brandt
Joan Marie Stebbins, C.M., B.F.A.
- Doctor of Laws*
Robert Samuel Best, B.A., M.A.
Ralph Eugene Himsl, B.A., B.Ed., M.Ed.
Mobina Serali Bandali Jaffer, LL.B., Q.C.
Samantha Joan Nutt, M.D., M.Sc., CCFP, F.R.C.P.(C), LL.D.
Son Soubert, M.A.
Ross Wade Watson, B.A.
- 2010** *Doctor of Laws*
Ike A. Lanier, B.A.
Shirley Anne Margaret McClellan
Michael Thomas Melling, B.Sc., M.B., Ch.B., F.R.C.S.(Glas.), F.R.C.S.(C.), F.A.C.S., Certfcd.ASAM
Hank A. Margolis, B.Sc., M.F., Ph.D.
- Doctor of Science*
Vincent Di Lollo, B.A., Ph.D.
- 2011** *Doctor of Arts*
John S. Kloppenborg, B.A., M.A., Ph.D.
- Doctor of Laws*
Maude Victoria Barlow
Clinton E. Dunford, B.A.
Phan Thi Kim Phuc, LL.D.
George V. Gemer
- Doctor of Science*
Gordon Walter Semenoff, B.Sc., Ph.D.
- 2012** *Doctor of Laws*
William H. Cade, B.A., M.A., Ph.D.
James Coutts, C.M.
W.C. Richard Davidson, Q.C.
Pete Standing Alone
- Doctor of Science*
Patrick O'Farrell, B.Sc., Ph.D.

- 2013** *Doctor of Laws*
Gary Bowie, B.Sc., M.Sc., Ph.D.
Richard Lloyd Casson, P.C.
Robert J. Turner, B.Comm., LL.B.,
Q.C.
Neil C. Wittman, B.Comm., LL.B.,
Q.C.
Doctor of Fine Arts
Rivka Golani, B.A., M.A.
- 2014** *Doctor of Laws*
Amanda Lindhout
Austin Mardon, B.A., M.Sc, M.Ed.,
Ph.D.
Seamus O'Shea, B.Sc., Ph.D.
Doctor of Science
Barbara Hohn, Ph.D
- 2015** *Doctor of Laws*
Victor Stanley Buffalo, O.C., A.O.E.,
B.A.T.
Ian Tyson
Cor Van Raay
Doctor of Science
Xiaoyi Bao, B.Sc., M.Sc., Ph.D.
Gregory Fahlman, B.Sc., M.Sc., Ph.D
Bryan Kolb, B.Sc., M.Sc., Ph.D.,
F.R.S.C.
- 2016** *Doctor of Laws*
Robert Brawn, B.Sc., P.Eng.
Gordon E. Jong, FCA
J. Wilton Littechild, O.C., A.O.E.,
Q.C., Ph.D.
Doctor of Science
Nancy Edwards, B.Sc.N., M.Sc., Ph.D.
Terry E. Robinson, B.A., M.A., Ph.D.
- 2017** *Doctor of Laws*
Dennis Connolly, B.Sc., M.A., Ph.D.
Buffy Sainte-Marie, B.A./B.Ed.
Doctor of Science
Maria Klawe, B.Sc., Ph.D.
- 2018** *Doctor of Laws*
Richard Hansen B.PE.
Margaret Macdonald, B.A. (Hons),
M.A.
Doctor of Letters
Reginald Bibby, B.A., B.D., Ph.D.
- 2019** *Doctor of Arts*
Hugh Dempsey
Doctor of Laws
Cindy Blackstock, B.A., M.Mgt., Ph.D
Navieet Dhillon, MBA.
Paul Martin, B.A., LL.B.
Doctor of Science
Arthur B. McDonald, B.Sc., M.Sc.,
Ph.D.
- DISTINGUISHED TEACHING AWARD**
Sponsored by Miss A.M. 'Dolly' Tennant
- 1987** David Spinks, L.T.C.L., F.R.S.A.
Dramatic Arts
Paul Upton, M.A.
English
- 1988** Robert Anderson, Ph.D.
Education
Ronald Yoshida, Ph.D.
Philosophy
- 1989** Robert Arms, Ph.D.
Psychology
Shelly Wismath, Ph.D.
Mathematical Sciences
- 1990** Keith Parry, Ph.D.
Anthropology
Brian Tyson, Ph.D.
English
- 1991** Patricia Chuchryk, Ph.D.
Sociology
Bryan Kolb, Ph.D., F.R.S.C.
Psychology
- 1992** Richard Arnold, Ph.D.
English
Malcolm Greenshields, D.Phil.
History
- 1993** Alan Aycock, Ph.D.
Anthropology
Gail Michener, Ph.D.
Biological Sciences
- 1994** William Baker, Ph.D.
History
John Donald Read, Ph.D.
Psychology
- 1995** Jane O'Dea, Ph.D.
Education
Lucius Stebbins, Ph.D.
Biological Sciences
- 1996** Martin Oordt, M.A.
English
John Woods, Ph.D., LL.D. (h.c.), F.R.S.C.
Philosophy
- 1997** Norman Buchignani, Ph.D.
Anthropology
Ian Wishaw, Ph.D., F.R.S.C.
Psychology
- 1998** Rick Mrazek, Ph.D.
Education
- 1999** George Evelyn, D.M.A.
Music
John Vokey, Ph.D.
Psychology and Neuroscience
- 2000** Andrew Hakin, Ph.D.
Chemistry and Biochemistry
Hillary Rodrigues, Ph.D.
Religious Studies and Anthropology
- 2001** Douglas Bray, B.Sc.
Biological Sciences
- 2002** Christopher Armstrong-Esther, Ph.D.
Health Sciences
- 2003** Hiroshi Shimazaki, Ph.D.
Management
- 2004** David Townsend, Ph.D.
Education
- 2005** Robin Bright, Ph.D.
Education
- 2006** Craig Loewen, Ph.D.
Education
- 2007** Craig Monk, D.Phil.
English
- 2008** Kenneth Vos, Ph.D.
Physics
- 2009** Ian McAdam, Ph.D.
English
- 2010** Leah Fowler, Ph.D.
Education
- 2011** Hans-Joachim Wieden, Ph.D.
Chemistry and Biochemistry
- 2012** David Hay, Ph.D.
History
- 2013** Hadi Kharaghani, Ph.D.
Mathematics and Computer Science
- 2014** Ute Weiden-Kothe, Ph.D.
Chemistry and Biochemistry
- 2015** Jan Newberry, Ph.D.
Anthropology
- 2016** Janay Nugent, Ph.D.
History
- 2017** Jennifer Mather, Ph.D.
Psychology
- 2018** Sheila McManus, Ph.D.
History
- 2019** Harold Jansen, Ph.D.
Political Science
- SPEAKER MEDAL FOR
DISTINGUISHED RESEARCH,
SCHOLARSHIP, OR PERFORMANCE**
Sponsored by Dr. Ingrid Speaker, Chancellor Emerita
- 1995** Menno Boldt, Ph.D.
Sociology
- 1996** Ian Wishaw, Ph.D., F.R.S.C.
Psychology
- 1997** John Woods, Ph.D., LL.D. (h.c.), F.R.S.C.
Philosophy
- 1998** Reginald Bibby, O.C., Ph.D., D. Litt. (h.c.)
Sociology
- 1999** Bryan Kolb, Ph.D., F.R.S.C.
Psychology and Neuroscience
- 2000** Raymond Huel, Ph.D.
History
- 2001** Keramat Ali, Ph.D.
Physics
- 2002** David Naylor, Ph.D.
Physics
- 2003** Gail Michener, Ph.D.
Biological Sciences
Margret Winzer, Ed.D.
Education
- 2004** Kurt Klein, Ph.D.
Economics
- 2005** Hadi Kharaghani, Ph.D.
Mathematics and Computer Science
- 2006** Stewart Rood, Ph.D.
Biological Sciences
- 2007** Robert James Sutherland, Ph.D.
Neuroscience

2008 Lawrence Flanagan, Ph.D.
Biological Sciences

2009 Brian Titley, Ph.D.
Education

2010 Dave Morris, Ph.D.
Education

2011 Jennifer Mather, Ph.D.
Psychology

2012 Joseph Rasmussen, Ph.D.
Biological Sciences

2013 Cynthia Chambers, Ph.D.
Education

2014 Sergio Pellis, Ph.D.
Neuroscience

2015 Igor Kovalchuk, M.D., Ph.D.
Biological Sciences

2016 Susan McDaniel, Ph.D., F.R.S.C.
Sociology

2017 Leroy Little Bear, B.A., J.D.
Native American Studies

2018 Gerlinde Metz, Ph.D.
Neuroscience

2019 Olga Kovalchuk, M.D., Ph.D.
Biological Sciences

UNIVERSITY OF LETHBRIDGE BOARD OF GOVERNORS RESEARCH CHAIRS

2000 Ian Whishaw, Ph.D., F.R.S.C.
Psychology and Neuroscience

2001 Reginald Bibby, O.C., Ph.D., D. Litt. (h.c.)
Sociology
Bryan Kolb, Ph.D., F.R.S.C.
Psychology and Neuroscience
Stewart Rood, Ph.D.
Biological Sciences
Randall Weselake, Ph.D.
Chemistry and Biochemistry

2003 Larry Flanagan, Ph.D.
Biological Sciences
Kurt Klein, Ph.D.
Economics

Gail Michener, Ph.D.
Biological Sciences
David Naylor, Ph.D.
Physics

2005 Ian Whishaw, Ph.D., F.R.S.C.
Neuroscience

2006 Reginald Bibby, O.C., Ph.D., D. Litt. (h.c.)
Sociology
Bryan Kolb, Ph.D., F.R.S.C.
Neuroscience
Stewart Rood, Ph.D.
Biological Sciences

2007 Sergio Pellis, Ph.D.
Neuroscience
Igor Kovalchuk, M.D., Ph.D.
Biological Sciences
Olga Kovalchuk, M.D., Ph.D.
Biological Sciences

2008 Larry Flanagan, Ph.D.
Biological Sciences

2011 Robert McDonald, Ph.D.
Neuroscience
Reginald Bibby, O.C., Ph.D., D. Litt. (h.c.)
Sociology
Bryan Kolb, Ph.D., F.R.S.C.
Neuroscience
Stewart Rood, Ph.D.
Biological Sciences

2012 David Naylor, Ph.D.
Physics and Astronomy
Sergio Pellis, Ph.D.
Neuroscience
Olga Kovalchuk, M.D., Ph.D.
Biological Sciences
Igor Kovalchuk, M.D., Ph.D.
Biological Sciences

2014 Robert Sutherland, Ph.D.
Neuroscience

2015 Tier I
Larry Flanagan, Ph.D.
Earth and Environment
Claudia Malacrida, Ph.D.
Organizations, Culture and Society
Gerlinde Metz, Ph.D.
Healthy Futures
Paul Vasey, Ph.D.
Organizations, Culture and Society

2016 Tier I
Reginald Bibby, Ph.D.
Sociology
Bryan Kolb, Ph.D.
Neuroscience
Robert McDonald, Ph.D.
Neuroscience
Stewart Rood, Ph.D.
Biological Sciences

Tier II
Carly Adams, Ph.D.
Organizations & Society
Rob Laird, Ph.D.
Orgins & Explorations
Bonnie Lee, Ph.D.
Healthy Futures
Pei Shao, Ph.D.
Organizations & Society

2017 Tier I
Igor Kovalchuk, M.D., Ph.D.
Biological Sciences
Olga Kovalchuk, M.D., Ph.D.
Biological Sciences
David Naylor, Ph.D.
Physics and Astronomy
Sergio Pellis, Ph.D.
Neuroscience
Stacey Wetmore, Ph.D.
Orgins & Explorations

Tier II
Richelle Marynowski, Ph.D.
Organizations & Society
D. Andrew Stewart, Ph.D.
Creativity & Performance
Suzanne Lenon, Ph.D.
Organizations & Society
Aaron Gruber, Ph.D.
Neuroscience
Maura Hanrahan, Ph.D.
Native American Studies

Jean-Baptiste Leca, Ph.D.
Psychology

2018 Tier I
Robert Sutherland, Ph.D.
Neuroscience

2019 Tier I
Paul Hayes, Ph.D.
Organometallic Chemistry
Kevin McGeough, Ph.D.
Archaeological Theory and Reception
Hans-Joachim Wieden, Ph.D.
Chemistry & Biochemistry

Tier II
Fangfang Li, Ph.D.
Child Language Acquisition
Aaron Taylor, Ph.D.
New Media Studies

UNIVERSITY OF LETHBRIDGE BOARD OF GOVERNORS TEACHING CHAIRS

2007 Shelly Wismath, Ph.D.
Mathematics and Computer Science

2008 Rick Mrazek, Ph.D.
Education

2009 Hillary Rodrigues, Ph.D.
Religious Studies

2010 Robin Bright, Ph.D.
Education

2011 Janice Newberry, Ph.D.
Anthropology

2012 Lance Grigg, Ph.D.
Education

2013 Harold Jansen, Ph.D.
Political Science

2014 Sheila McManus, Ph.D.
History

2015 Lisa Doolittle, M.A.
Theatre and Dramatic Arts

2016 David Slomp
Education

2017 Janay Nugent, Ph.D.
History

2018 Anne Dymond, Ph.D.

2019 Oluwagbohunmi (Olu) Awosoga, Ph.D.

UNIVERSITY OF LETHBRIDGE BOARD OF GOVERNORS UNIVERSITY SCHOLARS

2008 Brian Titley, Ph.D.
Education
Lisa Doolittle, M.A.
Fine Arts
Claudia Malacrida, Ph.D.
Social Sciences

2009 Judith Kulig, D.N.Sc
Health Sciences
Heidi MacDonald, Ph.D.
Humanities
Marc Roussel, Ph.D.
Sciences

- Mahfooz Ansari, Ph.D.
Management
- 2010** Amy von Heyking, Ph.D.
Education
Catherine Kingfisher, Ph.D.
Social Sciences
- 2011** Debra Basil, Ph.D.
Management
Maria Ng, Ph.D.
Humanities
Louise Barrett, Ph.D.
Sciences
- 2012** Janice Rahn, Ph.D.
Education
Judith Whitehead, Ph.D.
Social Science
Peter Visentin, Ph.D.
Fine Arts
- 2013** Michael Basil, Ph.D.
Management
Judith Kulig, D.N.Sc.
Health Science
Mark Walton, Ph.D.
Sciences
Carol Williams, Ph.D.
Humanities
- 2014** Kaz Mazurek, Ph.D.
Education
Josie Mills, Ph.D.
Fine Arts
Abdie Kazemipur, Ph.D.
Social Sciences
- PRESIDENT'S AWARD FOR SERVICE EXCELLENCE**
- 2003** Debi Sandul
Associate Registrar, Records and Registration
- 2004** Sharon Stevenson-Ferrari
Library Collections and Database Services (AUPE)
Terry Kirkvold
Telecom Manager (APO)
- 2005** Catherine Ross
Fine Arts Technician (AUPE)
Peter Haney
Assistant Registrar, Admissions (APO)
- 2006** Penny Secretan
Information Centre, Supervisor (AUPE)
Carrie Takeyasu
Associate Director, Financial Services (APO)
- 2007** Carl Budny
Building Maintenance (AUPE)
- 2008** Jane Allan
Grant Facilitator (APO)
Teresa Heyburn
Manager, Costume Shop (AUPE)
Lynn Hopkins
Costume Shop Assistant (AUPE)
- 2009** Naomi Cramer
Administrative Assistant, Canadian Centre for Behavioural Neuroscience (AUPE)

- Charlene Janes
International Liaison Officer, International Centre (APO)
- 2010** Facilities
Major Building Construction Team
Team Recipient
Calvin Toth
Audio Visual Production, Curriculum Re-Development Centre (APO)
Kim Fowler
Administrative Support (AUPE)
- 2011** Jaime Chinn
Business Systems Analyst, Information Technology (APO/ESS)
Dana Corbin, Kristin Galicia, Ghazia Kirn and Kelly Reid
Calgary Campus Administrative Team (AUPE)
- 2012** Kathleen Schrage
Manager, School of Graduate Studies (APO)
Linda Sebastian
Timetable and Convocation Officer (AUPE)
- 2013** Barbara Williams
Coordinator, Counselling Services (APO/ESS)
Barbara Hodgson
Administrative Support (AUPE)
Printing Services
Team Recipient
- 2014** Margaret Cook
Administrative Assistant, Department of Geography (AUPE)
Steve Craig
Director of External Relations & Communications, Faculty of Management (APO)
Erin Crane and Melissa Wiebe
Conference and Event Services Team
- 2015** John Kometz
Educational Technologist, Teaching Centre (AUPE)
Isabelle Gauthier
Veterinarian, Animal Care Services (APO)
Linda Gilbert, ChiChi Cameron, and Kim Skura
Arts & Science, Dean's Office Team
- 2016** Jadranka Smiljanec
Housekeeping, Housing Services (AUPE)
Rosemary Howard
Library - Client Services & Facilities (AUPE)
Aaron Tamayose
Manager, Accomodated Learning Centre (APO)
The Teaching Centre
Team Recipient
- 2017** Bev Garnett
Administrative Assistant, Departments of English, History, Liberal Education, Philosophy and Religious Studies (AUPE)
Heather Rowland
Counsellor, Counselling & Career Services (APO)

- 2018** Leanne Wehlage-Ellis
Administrative Assistant, Departments of Psychology and Women and Gender Studies (AUPE)
Nancy Pastoor
Senior Human Resources Consultant (APO)
Caretaking Team of 60 individuals
Team Recipient
- 2019** Chris Morris
Technical Specialist, Fine Arts - Music Department (AUPE)
Jon Oxley
Administrative Manager, Fine Arts - Art Gallery (APO)
Institutional Analysis
Team Recipient

KEY TO THE UNIVERSITY OF LETHBRIDGE

- Val and Flora Matteotti
Friends
- Tony Rose and Rocco Suriano
Friends
- Robert Tarleck
Former Mayor of Lethbridge
- Rick Casson
Former MP Lethbridge
- Ed Stelmach
Former Alberta Premier
- Robert Hironaka
Chancellor Emeritus
- Richard Davidson
Chancellor Emeritus
- Robert J. Turner
Board of Governors Chair Emeritus
- Shirley McClellan
Chancellor Emerita
- Gordon Jong
Board of Governors Chair Emeritus
- Marmie Hess
Friend
- Janice Varzari
Chancellor

UNIVERSITY OF LETHBRIDGE VOLUNTEER AWARD

Sponsored by the University of Lethbridge Senate

- 2005** Sharon Tennant
- 2006** Knud Petersen
- 2007** Judith Ann O'Shea
- 2008** Daniel Douglas Laplante
- 2009** Dennis M. Connolly
- 2010** Robert Hironaka
Elsa Cade
- 2011** Elisha Rasmussen
- 2012** George Evelyn and Lottie Austin

- 2013** Alberta Summer Games Team:
Jochen Bocksnick, Deb Marek, Cheryl
Meheden, and Nancy Walker
- 2014** Dory Rossiter
- 2015** Debby Steacy
- 2016** Erin Phillips
- 2017** Bette & Pete Greidanus
- 2018** James Berezan
- 2019** Anne Dymond

DISTINGUISHED ALUMNI

Sponsored by the University of Lethbridge Alumni Association

- 1989** Don A. Vanden Berg, Ph.D.
- 1990** Clint Brooks, Ph.D.
- 1992** Terrance Earl Robinson, Ph.D.
- 1993** Rick Mrazek, Ph.D.
- 1994** Quentin J. Pittman, Ph.D.
- 1995** Madeleine Dion Stout, M.A.
- 1996** Wendy Nielsen, M.Mus.
- 1997** Brent A. Reynolds, Ph.D.
- 1998** Alfred Bogusky, B.F.A.
- 1999** Glen Prusky, Ph.D.
- 2000** Anil H. Pereira, B.Mgt.
- 2001** Lorraine Major, M.A.
- 2002** Austin Mardon, Ph.D.
- 2003** Leroy Little Bear, J.D.
- 2004** David Iwaasa, M.A.
- 2005** Raymond Romses, B.A.Sc. (B.A.)
- 2006** Shirley Steinberg, Ph.D.
- 2007** Trevor David Legg, Ph.D.
- 2008** Douglas Schmitt, Ph.D.
- 2009** Cheryl Jayne Misak, Ph.D.
- 2010** Blair R. McMurren, Ph.D.
- 2011** J. Michael Miltenberger, B.A.Sc. (B.A.)
- 2012** Kathryn Preuss, Ph.D.
- 2013** Robert Morrison, Ph.D.
- 2014** Lawrence Johnson, B.A.Sc., B.Sc.
- 2015** Andrew Staniland, B.Mus., Ph.D.
- 2016** Ronald Skolrood, B.A.
- 2017** Jaime Medicine Crane, B.Ed.
- 2018** Bill Spenceley, B.A.Sc. (B.Sc.)
- 2019** Catrine Tudor-Locke B.A.Sc. (B.A.)

DISTINGUISHED YOUNG ALUMNI

Sponsored by the University of Lethbridge Alumni Association

- 2016** Danielle Tait, B.Mgt.
- 2017** Janelle Pritchard, B.N.
- 2018** Bryn Hewko, M.F.A.
- 2019** Aaron Tamayose B.A., M.C.

DISTINGUISHED ACHIEVEMENTS**3M NATIONAL TEACHING FELLOWSHIP**

- 1999** Patricia Chuchryk, Ph.D.
- 2017** Shelly Wismath, Ph.D.

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH POLARIS RESERACH CHAIR

- 2008** Bruce McNaughton

ALBERTA GAMBLING RESEARCH INSTITUTE GAMBLING RESEARCH CHAIR

- 2014** Darren Christensen

ALBERTA INNOVATES - HEALTH SOLUTIONS NEW INVESTIGATOR AWARD

- 2016** Julia Brassolotto, Ph.D.
Healthy Futures and Wellness

ALBERTA INNOVATES - HEALTH SOLUTIONS TRANSLATIONAL HEALTH CHAIR IN ABORIGINAL HEALTH AND WELL-BEING

- 2014** Cheryl Currie, Ph.D.

ALBERTA INNOVATES - TECHNOLOGY SOLUTIONS STRATEGIC CHAIR

- 2013** Hans-Joachim Wieden, Ph.D.
RNA Bioengineering
- 2015** Ute Wieden-Kothe, Ph.D.
Transcriptomics of RNA (Tier 2)

CAMPUS ALBERTA INNOVATES PROGRAM CHAIRS

- 2013** Chistopher Hopkinson, Ph.D.
Terrestrial Ecosystems
- Majid Mohajerani, Ph.D.
Brain Health and Dementia
- Gregory Pyle, Ph.D.
Aquatic Health
- 2014** Nehal Thakor, Ph.D.
Synthetic Biology

CANADA 150 RESEARCH CHAIR

- 2018** Borries Demeler, Ph.D.

CANADA COUNCIL KILLAM RESEARCH FELLOWSHIP

- 1998/1999** Bryan Kolb, Ph.D., F.R.S.C
- 2007/2008** Stewart Rood, Ph.D.
- 2008-2010** Stewart Rood, Ph.D.

CANADA RESEARCH CHAIRS

- 2003** Alice Hontela, Ph.D.
Ecotoxicology (Tier 2)
- Joseph B. Rasmussen, Ph.D.
Aquatic Ecosystems (Tier 1)
- 2004** Dan L. Johnson, Ph.D.
Sustainable Grassland Ecosystems (Tier 1)
- Robert McDonald, Ph.D.
Behavioural Neuroscience (Tier 2)
- 2005** Henning Bjornlund, Ph.D.
Water Resource Economics (Tier 2)
- Hans-Joachim Wieden, Ph.D.
Physical Biochemistry (Tier 2)

- 2006** Deborah Saucier, Ph.D.
Neuroscience (Tier 2)
- Stacey Wetmore, Ph.D.
Chemistry and Biochemistry (Tier 2)

- 2009** Claudia Gonzalez, Ph.D.
Sensorimotor Control (Tier 2)

- 2010** Henning Bjornlund, Ph.D.
Water and the Economy (Tier 2)

- 2012** Louise Barrett, Ph.D.
Cognition, Evolution and Behaviour (Tier 1)

- 2013** Kristine Alexander, Ph.D.
Child and Youth Studies (Tier 2)

- 2014** Andrew Iwaniuk, Ph.D.
Comparative Neuroanatomy (Tier 2)
- Claudia Gonzalez, Ph.D.
Sensorimotor Control (Tier 2)

- 2016** Steve Wiseman, Ph.D.
Aquatic Toxicology & Stress Physiology (Tier 2)

- Athan Zovoilis, Ph.D.
RNA Bioinformatics (Tier 2)

- 2017** Monique Giroux, Ph.D.
Indigenous Music, Culture, and Politics (Tier 2)

- Trushar Patel, Ph.D.
RNA & Protein Biophysics (Tier 2)

- 2018** Kristine Alexander, Ph.D.
Child and Youth Studies (Tier 2)

- Locke Spencer, Ph.D.
Experimental Astrophysics (Tier 2)

- Julie Young, Ph.D.
Critical Border Studies (Tier 2)

- 2019** Louise Barrett, Ph.D.
Cognition, Evolution, and Behaviour (Tier 1)
- Matthew Bogard, Ph.D.
Aquatic Environments (Tier 2)

CANADA'S TOP 40 UNDER 40 (TM)

- 2010** Olga Kovalchuk, Ph.D.

CANADIAN ASSOCIATION FOR COOPERATIVE EDUCATION (CAFCE), CO-OP STUDENT OF THE YEAR

- 2000** Russell Goodman
- 2003** Marc Slingerland

CANADIAN INSTITUTES OF HEALTH RESEARCH CHAIR IN GENDER, WORK, AND HEALTH

- 2013** Olga Kovalchuk, M.D., Ph.D.

EMMY DROOG CHAIR IN COMPLEMENTARY AND ALTERNATIVE HEALTH CARE

- 2014** Brenda Leung, Ph.D.

KOLB PROFESSORSHIP/CHAIR IN NEUROSCIENCE

- 2020** Majid Mohajerani, Ph.D.

FULBRIGHT SCHOLARS

- 1999/2000** Derek R. Peddle, Ph.D.
- 2005/2006** Geoffrey Hale, Ph.D.

- 2007/2008** Christopher Kukucha, Ph.D.

- 2010/2011** Trevor Harrison, Ph.D.

PRENTICE INSTITUTE RESEARCH CHAIR

- 2009** Susan McDaniel, Ph.D.

ORDER OF CANADA

- 1986** Islay M. Arnold, O.C., LL.D. (*h.c.*)
- 2003** Howard E. Tennant, C.M., Ph.D., LL.D. (*h.c.*)
- 2006** Reginald Bibby, O.C., Ph.D., D. Litt. (*h.c.*)
Officer (Social Sciences)
- James D. Horsman, C.M., A.O.E., Q.C., B.Comm., LL.B., LL.D. (*h.c.*)
Member (Public Service)
- 2007** Yoshio Senda, C.M., LL.D. (*h.c.*)
- 2016** Brian Kolb, O.C., Ph.D., D.Sc. (*h.c.*)
- 2018** Leroy Little Bear, O.C., B.A., J.D., D.ASc. (*h.c.*)

RESEARCH CHAIR IN POTATO SCIENCE

- 2016** Dmytro Yevtushenko, Ph.D.

RHODES SCHOLARS

- 1984** Cheryl Misak
- 1998** Blair McMurren
- 2001** Russell Goodman

THE ROYAL SOCIETY OF CANADA

- 1990** John Woods, Ph.D., LL.D. (*h.c.*), F.R.S.C.
Fellow (Academy of Humanities and Social Science)
Vice President of Academy II (1994–1996)
President of Academy II (1996–1998)
- 1994** Susan McDaniel, Ph.D., F.R.S.C.
Fellow (Academy II, Academy of Social Science)
Director, Social Sciences Division, 2007–2009
- 1998** Ian Whishaw, Ph.D., F.R.S.C.
Fellow (Academy of Science)
- 2000** Bryan Kolb, Ph.D., F.R.S.C.
Fellow (Academy of Science)
- 2014** Andrew Iwaniuk, Ph.D.
Member (College of New Scholars, Artists and Scientists)
- 2016** Louise Barrett, Ph.D.
Fellow (Academy of Social Sciences)
Artur Luczak, Ph.D.
Member (College of New Scholars, Artists and Scientists)
Bruce McNaughton, Ph.D.
Fellow (Academy of Science)
Joe Rasmussen, Ph.D.
Fellow (Academy of Science)
- 2017** Yale Belanger, Ph.D.
Member (College of New Scholars, Artists and Scientists)
Ute Wieden-Kothe, Ph.D.
Member (College of New Scholars, Artists and Scientists)

COLLABORATING AND PARTNERING INSTITUTIONS

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I. COLLABORATING INSTITUTIONS AND PROFESSIONAL PROGRAM PARTNERS

A collaborative program is offered jointly by the University of Lethbridge and a collaborating post-secondary institution. These programs are distinguished by policies relating to admission and graduation. Students are initially admitted to both the University of Lethbridge and to the collaborating post-secondary institution. Graduating students are awarded a University of Lethbridge degree.

Nursing Education in Southwestern Alberta (NESA) Bachelor of Nursing Programs (B.N. and B.N. (After Degree))

Lethbridge College

The University of Lethbridge partners with other institutions to offer pathways to professional degrees that enable students to complete a portion of their program at the University of Lethbridge and then transfer to other institutions to complete the program. For further detail, see **Arts and Science, Pre-Professional Transfer Programs (p. 120)**.

Engineering

University of Alberta
University of Saskatchewan

Social Work

University of Calgary

2. POST-DIPLOMA PARTNER INSTITUTIONS

Programs are offered independently by another post-secondary institution and lead to the completion of a diploma or applied/technology degree. Under agreements between the University of Lethbridge and the partner institution, these credentials are recognized by the University of Lethbridge for admission to a post-diploma degree program. Graduating students are awarded a University of Lethbridge degree. For a complete list of the approved diplomas at each institution, please visit www.uleth.ca/ross/post-diploma.

a. **Agricultural Studies Programs (B.A. and B.Sc.)**

Alberta

Grande Prairie Regional College
Lakeland College
Lethbridge College
Northern Alberta Institute of Technology (NAIT)
Olds College

Manitoba

Assiniboine Community College

Saskatchewan

Saskatchewan Polytechnic

b. **Computer Science Program (B.Sc.)**

Alberta

Bow Valley College
Grande Prairie Regional College
Lethbridge College
Medicine Hat College
Red Deer College
Northern Alberta Institute of Technology (NAIT)
Southern Alberta Institute of Technology (SAIT)

British Columbia

Camosun College
Kwantlen Polytechnic University
Okanagan College

Ontario

Algonquin College
Durham College
Georgian College
Humber College
Sheridan College
St. Lawrence College

Saskatchewan

Saskatchewan Polytechnic

c. **Environmental Science Program (B.Sc.)**

Alberta

Keyano College
Lakeland College
Lethbridge College
Medicine Hat College
Northern Alberta Institute of Technology (NAIT)
Southern Alberta Institute of Technology (SAIT)

British Columbia

Douglas College
Selkirk College

Manitoba

Assiniboine Community College

Northwest Territories

Aurora College

Nunavut

Nunavut Arctic College

Ontario

Georgian College

d. **Geography, with a Concentration in Geographical Information Science Program (B.Sc.)**

Alberta

Lethbridge College
Northern Alberta Institute of Technology (NAIT)
Southern Alberta Institute of Technology (SAIT)

British Columbia

Selkirk College

Saskatchewan

Saskatchewan Polytechnic

e. **Fine Arts - Art Program (B.F.A. - Art)**

Alberta

Grande Prairie Regional College
Keyano College
MacEwan University
Medicine Hat College
Red Deer College

British Columbia

Camosun College
Capilano University
Emily Carr University of Art and Design
Kwantlen Polytechnic University
Langara College
Thompson Rivers University
University of the Fraser Valley

Ontario

Fanshawe College
Humber College
Ottawa School of Art
Sheridan College

United States
Brigham Young University - Idaho

f. Fine Arts - Dramatic Arts Program (B.F.A. - Dramatic Arts)

Alberta
Keyano College
Lethbridge College
MacEwan University
Medicine Hat College
Olds College
Red Deer College

British Columbia
Douglas College
Langara College
University of the Fraser Valley

Ontario
George Brown College
Humber College
Sheridan College

United States
Brigham Young University - Idaho

g. Fine Arts - Multidisciplinary Program (B.F.A. - Multidisciplinary)

Alberta
Grande Prairie Regional College
Keyano College
The King's University
MacEwan University
Mount Royal University
Red Deer College

h. Addictions Counselling Program (B.H.Sc.)

Alberta
Lethbridge College
Medicine Hat College
Nechi Institute: Centre of Indigenous Learning

Saskatchewan
Saskatchewan Polytechnic

i. Management Program (B.Mgt.)

Alberta
Athabasca University
Bow Valley College
Grande Prairie Regional College
Keyano College
Lakeland College
Lethbridge College
MacEwan University
Maskwacis Cultural College
Medicine Hat College
Northern Alberta Institute of Technology (NAIT)
Olds College
Portage College
Red Deer College
Southern Alberta Institute of Technology (SAIT)
Yellowhead Tribal College

British Columbia
British Columbia Institute of Technology (BCIT)
Camosun College
Capilano University
College of New Caledonia

College of the Rockies
Douglas College
Nicola Valley Institute of Technology
Okanagan College
Selkirk College
Vancouver Island University

Manitoba
Assiniboine Community College
University College of the North

Newfoundland
College of the North Atlantic

Northwest Territories
Aurora College

Nunavut
Nunavut Arctic College

Ontario
Algonquin College
Cambrian College
Centennial College
Conestoga College
Confederation College
Fanshawe College
Fleming College
Lambton College

Quebec
Dawson College

Saskatchewan
Saskatchewan Indian Institute of Technologies (SIIT)
Saskatchewan Polytechnic

Yukon Territory
Yukon College

United States
Brigham Young University - Idaho

Singapore
Nanyang Polytechnic

j. Music Program (B.Mus.)

Alberta
Grande Prairie Regional College
Mount Royal University
Red Deer College
The King's University

British Columbia
Camosun College
Capilano University
Douglas College
Kwantlen Polytechnic University

Ontario
Cambrian College
Mohawk College

United States
Brigham Young University - Idaho

k. Public Health Program (B.H.Sc.)

Alberta
Bow Valley College
Lethbridge College
Mount Royal University
NorQuest College

I. Therapeutic Recreation Program (B.T.R.)

Alberta
Lethbridge College
NorQuest College

Nova Scotia
Nova Scotia Community College

Ontario
Canadore College

Saskatchewan
Saskatchewan Polytechnic

3. DUAL ADMISSION PARTNER INSTITUTIONS

The University of Lethbridge has dual admission agreements with partner institutions for some degree programs. Dual admission enables students to be admitted to a University of Lethbridge program while still attending the partner institution and offers additional benefits regarding registration, program requirements (Calendar year), and access to student services. For further information, see **Admission, Dual Admission (p. 25)**.

Arts and Science
College of the Rockies

Fine Arts
Medicine Hat College

4. EXCHANGE PARTNER INSTITUTIONS

Through exchange agreements with partner institutions in several countries, the University of Lethbridge provides opportunities for students to enrich their educational experience by earning credit towards their degree program through study abroad. Details on these exchange opportunities are available through University of Lethbridge International (www.uleth.ca/international/content/education-abroad).

Argentina
Universidad Blas Pascal

Australia
Southern Cross University
Western Sydney University

Belgium
Université de Liège
Université Libre de Bruxelles, Solvay Business School

Brazil
Universidade Estadual de Ponta Grossa

Chile
Pontificia Universidad Católica de Valparaíso

China
Renmin University of China
Zhejiang Sci-Tech University

Ecuador
Universidad de Especialidades Espíritu Santo

France
Université Catholique de Lyon, École supérieure pour le développement économique et social (ESDES)

Germany
Hochschule München
Hochschule Reutlingen
Hochschule Schmalkalden
Otto-von-Guericke-Universität Magdeburg

Hungary
Kaposvár University
Károli Gáspár Református Egyetem

India
Lovely Professional University
Sanjivani Rural Education Society – College of Engineering

Italy
Libera Università di Bolzano

Japan
Gakushuin Women's College
Hokkai-Gakuen University
Kansai Gaidai University
Meio University
Nagasaki University
Nagoya University of Foreign Studies
Rikkyo University
Ritsumeikan Asia Pacific University
Waseda University

Malaysia
Universiti Sains Malaysia

Mexico
Universidad Intercultural Maya de Quintana Roo
Universidad Panamericana
Universidad Veracruzana

Netherlands
Hogeschool Utrecht

Poland
Poznan University of Economics and Business

Portugal
Universidade da Beira Interior

Slovenia
Univerza na Primorskem

South Korea
Ajou University
Konkuk University
University of Ulsan

Spain
Universidad de Granada
Universidad de Jaén

Taiwan
National Sun Yat-sen University

Turkey
Anadolu Üniversitesi

United Kingdom
Canterbury Christ Church University
University of Essex
University of Plymouth

United States
Muskingum University
New Mexico State University

Uruguay
Universidad de Montevideo

GLOSSARY

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. 120** and **Professional Transfer Programs, p. 120**).

Academic Schedule

The University's schedule of dates and deadlines. These dates are legislated by General Faculties Council (GFC) (see **p. 15**).

Accredited or Recognized Institution

A post-secondary institution approved by the government of the country in which it is located to grant degrees, diplomas or certificates, or to provide post-secondary courses leading to these qualifications, or one licensed for post-secondary education purposes.

Add/Drop

Period of time at the beginning of each term and session when students may register in (add or drop) courses. For more information, see **Registration, Course Registration (p. 37)**, and **Fees, Cancellations, Refunds and Withdrawals (p. 41)**. 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 those 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 Coordinator of Applied Studies for specific information (AH151; tel. 403-329-2000), or **Applied Studies, p. 278**.

Audit Student

A student who has been granted permission by an instructor to attend lectures in a course on 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. 35**).

Bridge (www.uleth.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.

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 hours of instruction 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

An assembly for the purpose of conferring degrees (see **Graduation**).

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.

Dean

The head of a Faculty or School at the University of Lethbridge. 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 our 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 (p. 489)** and **Fees, Definitions (p. 40)**.

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 requirements. For more information, see **International** or visit www.uleth.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. 26**).

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. 49**). 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. 37)**, and **Fees, Cancellations, Refunds and Withdrawals (p. 41)**. 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. 43** and **Academic Regulations, Exceeding Course Limits, p. 49**).

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.

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. 34)**.

Government or other agencies may require more than these minimums per term for loans or scholarships for which only full-time students are eligible.

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 be met. See **Admission**.

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. 47**).

Grading Mode

The type of grade that will be awarded in a course as defined in **Academic Regulations, Grading (p. 46)**. The standard grading mode employed by instructors is a letter grade; the alternative grading mode is Pass/Fail. Credit/Non-Credit, which is designated at the discretion of the student, is not a grading mode.

Graduate Student

A student enrolled in a graduate or post-graduate program that leads to a master's or doctoral credential at the University of Lethbridge.

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.

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 (p. 488)** and **Fees, Definitions (p. 40)**.

Laboratory

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.

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.

Member of the University Community

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.

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**.

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.

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.

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. 48**.

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. 35**).

Part-time Student

A student who is registered in fewer than 9.0 credit hours in a fall, spring or summer term is considered part-time. For more information, see **Registration, Full-time and Part-time (p. 34)**.

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)

The preliminary requirement that must be met or waived before a course can be taken.

Prerequisite Waiver

Written permission from a Faculty/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. 50**).

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.

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 degree, diploma or certificate to be conferred. For specific information on all program residence requirements, see **Academic Regulations, Residence Requirements and Time Limits (p. 51)**.

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.

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. 170)**.

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. 49**). 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. 34)**. See **Term** for information on courses that run full-term over the summer.

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 only available in the Faculty of Arts and Science (see **Arts and Science, Readmission after Required Withdrawal, p. 78**), the Faculty of Fine Arts (see **Fine Arts, Readmission after Required Withdrawal, p. 144**), the Faculty of Health Sciences (see **Health Sciences, Readmission after Required Withdrawal, p. 170**), and the Dhillon School of Business (see **Dhillon School of Business, Readmission after Required Withdrawal, p. 180**).

Term

Term refers to a period of study.

- Fall term occurs during the period September through December.
- Spring term occurs during the period January through April.
- 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. 22**).

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. 43**.

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. 22**.

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.

Undergraduate Student

A student enrolled in a program that leads to a bachelor's degree, diploma or certificate at the University of Lethbridge.

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.uleth.ca/bridge). See **Academic Regulations, Academic Transcripts, p. 48**

Visiting Student

There are two types of visiting students:

- 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.
- 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.

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. 37)**, and **Fees, Cancellations, Refunds and Withdrawals (p. 41)**. For Withdrawal Deadlines, see the **Academic Schedule (p. 15)**. See also **Extended Drop Deadline**.

Year of the Calendar

The specific University of Lethbridge Academic Calendar and Course Catalogue that governs a student's program requirements. Students are normally 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. 51**).

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