

Part Eleven

COMBINED DEGREES

1. **BASIC INFORMATION**
2. **ADVISING**
3. **BACHELOR OF ARTS/BACHELOR OF EDUCATION
BACHELOR OF SCIENCE/BACHELOR OF EDUCATION**
 - a. Admission
 - b. Arts and Science Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.
 - c. Education Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.
 - d. Major Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.
 - e. Education Minor Requirements
 - f. Academic Regulations
 - g. Residence Requirement
 - h. Special Study Arrangements
 - i. Sample Program
4. **BACHELOR OF FINE ARTS (ART)/BACHELOR OF EDUCATION**
 - a. Admission
 - b. School of Fine Arts Requirements for the 50-Course B.F.A. (Art)/B.Ed.
 - c. Faculty of Education Requirements for the 50-Course B.F.A. (Art)/B.Ed.
 - d. Academic Regulations
 - e. Education Minor Requirements
 - f. Residence Requirement
 - g. Special Study Arrangements
 - h. Proposed Course Sequencing Plan
 - i. Sample Program
5. **BACHELOR OF FINE ARTS (DRAMATIC ARTS)/BACHELOR OF EDUCATION**
 - a. Admission
 - b. School of Fine Arts Requirements for the 50-Course B.F.A. (Dramatic Arts)/B.Ed.
 - c. Faculty of Education Requirements for the 50-Course B.F.A. (Dramatic Arts)/B.Ed.
 - d. Academic Regulations
 - e. Education Minor Requirements
 - f. Residence Requirement
 - g. Special Study Arrangements
6. **BACHELOR OF MUSIC/BACHELOR OF EDUCATION**
 - a. Admission
 - b. School of Fine Arts Requirements for the 52-Course B.Mus./B.Ed.
 - c. Faculty of Education Requirements for the 52-Course B.Mus./B.Ed.
 - d. Academic Regulations
 - e. Education Minor Requirements
 - f. Residence Requirement
 - g. Special Study Arrangements
 - h. Proposed Course Sequencing Plan
 - i. Sample Program
7. **BACHELOR OF MANAGEMENT/BACHELOR OF EDUCATION**
 - a. Admission
 - b. Faculty of Management Requirements for the 50-Course B.Mgt./B.Ed.
 - c. Faculty of Education Requirements for the 50-Course B.Mgt./B.Ed.
 - d. Academic Regulations
 - e. Education Minor Requirements
 - f. Residence Requirement
 - g. Special Study Arrangements
 - h. Sample Program
8. **BACHELOR OF ARTS/BACHELOR OF MANAGEMENT
BACHELOR OF SCIENCE/BACHELOR OF MANAGEMENT**
 - a. Admission
 - b. Arts and Science Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.
 - c. Management Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.
 - d. Major Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.
 - e. Academic Regulations
 - f. Residence Requirement
9. **B.A. OR B.Sc. AFTER TRANSFER TO A PROFESSIONAL FACULTY**
 - h. Proposed Course Sequencing Plan
 - i. Sample Program

1. **BASIC INFORMATION**

Combined Degrees 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/Schools. Note that some Combined Degrees programs require more than

50 courses. Students must be admitted to both Faculties or Schools responsible for a particular Combined Degrees program before they may be registered formally in the program. Some programs have quotas 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.

COMBINED DEGREES

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 Music/Bachelor of Education (52 courses)
- Bachelor of Management (General)/Bachelor of Education (50 courses)
- Bachelor of Arts/Bachelor of Management (50 courses)
- Bachelor of Science/Bachelor of Management (50 courses)

2. ADVISING

Combined Degrees are made possible by the efforts and cooperation of two different Faculties or Schools. Students are urged to consult with Advisors from both Faculties or Schools throughout their program. However, students are usually admitted initially to a pre-Combined Degrees program in the Faculty of Arts and Science where they remain for the first two years of the program, regardless of which Faculties or Schools are responsible for the particular Combined Degrees program the student intends to pursue. Students may be admitted to the Combined Degrees program after completion of 20 courses. Transfer students may be admitted directly to a Combined Degrees program if they meet admission requirements.

3. BACHELOR OF ARTS/BACHELOR OF EDUCATION BACHELOR OF SCIENCE/BACHELOR OF EDUCATION

a. Admission

Students begin this program in the Faculty of Arts and Science where they must meet admission requirements for the Faculty of Education and progress toward completion of Arts and Science degree requirements. Students may be admitted to the pre-B.A./B.Ed. or pre-B.Sc./B.Ed. Combined Degrees program when they are admitted to the University. After completion of the minimum requirements, students may apply to the Faculty of Education and, if accepted, will be formally enrolled in the B.A./B.Ed. or B.Sc./B.Ed. Combined Degrees program.

Students are not officially in the program until they have been admitted to BOTH the Faculty of Arts and Science (through admission to the University) and the Faculty of Education. If a student is admitted to the Combined Degrees program and subsequently chooses to withdraw from Education, the student must make formal application to the Faculty or School in which he or she intends to pursue a degree.

Note: The Faculty of Education does not offer a B.Ed. degree alone, unless after an approved degree; first degree students must be admitted to a Combined Degrees program in order to receive a B.Ed.

Note: While application for admission after 20 courses is the preferred academic plan, those students who have completed 30 or more courses may also apply for admission to this program.

1. Faculty of Education Admission Requirements for the B.A./B.Ed. or B.Sc./B.Ed. Combined Degrees Program

Based on the Faculty's quota system, normally a total of 180 students in all programs will be admitted to the Faculty each June to begin their studies in the Fall semester. The deadline for application to the Faculty of Education is June 1.

There are enrolment limits on the number of students admitted to the Faculty of Education. Students should note that completion of pre-Education requirements does not guarantee admission to the program. Admission decisions are based primarily on evaluation of performance in Education 2500 and grade point average calculated on all courses, including all transferable courses.

Students must meet the following minimum qualifications for admission to the Faculty of Education:

- a. Completion of a minimum of 19 Arts and Science courses. Students who transfer from another institution with 20 courses will be considered for admission with a minimum of 15 Arts and Science courses and five appropriate Education courses.

Note: Students who have not completed a major portion of the General Liberal Education Requirement prior to admission to the Combined Degrees program may not be able to complete degree requirements in 50 courses.

- b. A minimum grade point average of 2.50 on all graded pre-Education courses, including all transferable courses.
- c. A minimum grade point average of 2.50 on all graded courses comprising the major, including all transferable courses. Admission requirements for the major may be met in one of the following ways:
 1. Completion of at least eight semester courses in a single discipline major.
 2. Completion of at least 11 courses in the 15-course multidisciplinary major, including at least five courses in the main teaching subject area.
 3. Completion of at least 11 courses in the 16-course General Major, including at least five courses in the main teaching subject area.
- d. Credit in Education 2500 (Orientation to Teaching), or equivalent, including a favourable recommendation from the instructor.

Students with a GPA of 2.50 or higher, calculated on all courses including those accepted for transfer credit, may register directly in Education 2500. If available spots are not so filled, additional students will be considered on the basis of the proximity of their GPA to 2.50 and the number of Arts and Science courses remaining in their program (those with fewer remaining courses will take preference). Such students will be added during the Add/Drop period upon application to Student Program Services in the Faculty of Education.

e. Demonstrated proficiency in written and oral English (or French). A student may meet the Writing Proficiency Requirement in any of the following ways:

1. obtaining a grade of 75 percent or higher on the English 30 Alberta Diploma exam;
2. obtaining a final grade of 80 percent or better in English 30 or its equivalent from any province;
3. passing the Alberta Universities' Writing Competency Test (AUWCT);
4. obtaining a pass in the 'Writing for University' course;
5. obtaining a 'B' grade or better in a university English course;
6. completion of a recognized degree from an English language university; or
7. obtaining a satisfactory grade in Management 3090.

Students are encouraged to consult early with the Faculty of Education Student Program Services Office regarding procedures for meeting the Writing Proficiency Requirement, especially the French language proficiency.

2. Completion of Additional Admission Requirements in Specific Majors

- a. Art - completion of an acceptable portfolio and interview.
- b. Dramatic Arts - completion of an acceptable portfolio, performance audition and interview.
- c. Music - completion of an acceptable performance audition and/or interview.
- d. Modern Languages - successful completion with a minimum 2.50 G.P.A. in prerequisite language major courses.
- e. Native Education - completion of five of the seven courses required in the school subject minor.
- f. Physical Education - completion of a Physical Education and Sport Activities report which must include:

- brief description of experience (coaching duties, workshops/coaching clinics, certification),
- list of organizations and timeframes with them,
- written confirmation of experience from organization (letter of reference, certificate of achievement).

Students should consult Student Program Services in the Faculty of Education for guidelines regarding the requirements stated above.

3. Special Case Admission

Students who have a good 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 students may be admitted). Students applying for Special Case admission must meet minimum criteria for admission to the Faculty of Education and, in addition, provide evidence of: a shift in academic performance, extenuating circumstances, consistent excellence in at least 20 courses including the last ten, and breadth and depth in those 20 courses. Students must apply in writing to the Assistant Dean, Student Program Services, prior to the June 1 application deadline.

4. Aboriginal Special Case Admission

Students of Aboriginal descent who meet the minimum qualifications for admission in any major may be considered for Special Case admission to the combined B.A./B.Ed. or B.Sc./B.Ed. Students who wish to be considered for admission under this category must follow normal application procedures and, in addition, must inform Student Program Services in the Faculty of Education of their intent in writing and provide evidence of Aboriginal descent prior to the June 1 admission deadline.

b. Arts and Science Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.

1. General Requirements for the B.A. or B.Sc.

- a. Completion of at least 30 Arts and Science courses with a grade point average of at least 2.00.
- b. Completion of the General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).
- c. At least nine Arts and Science courses at the 3000/4000 level (excluding Activity courses).
- d. For the B.A., at least 20 courses not from the list **Science Courses**. For the B.Sc., at least 20 courses from the list **Science Courses** (see **Part 5 - Arts and Science, Section 16 - Divisional Course Designation, pp. 78-79**).

- e. Not more than three Independent Study courses may be taken for credit towards the degree.
- f. Not more than eight introductory courses at the 0100/1000 level. For 0100/1900-level introductory courses which have a 0100/1000-level background or prerequisite, only the first course in the series counts toward this limit. Activity courses are also exempted from this limit. Only one of Biology 1010 and Biology 1020 will be counted toward this limit.
- *g. Not more than 17 courses from one Department.
- h. Not more than four Activity courses except for Dramatic Arts majors, 8; Music majors, 8; Physical Education majors, 16; Recreation and Leisure Studies majors, 10, for credit towards the degree.
- i. All degree requirements must be completed within 20 years after admission to the program.

***Note:** For purposes of these regulations, *Mathematics and Computer Science; Geography and Archaeology; and French, German and Spanish may be considered as separate Departments.*

c. Education Degree Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.

1. General Requirements for the B.Ed.

- a. Application and admission to the Faculty of Education.
- b. Completion of the equivalent of 20 Education courses including:
Education 2500
Professional Semesters I, II and III
One Education Foundation course*
Two Education electives

**The Education Foundation Requirement may be met in the following ways:*

1. One course from the following list:

Education 4310
Education 4311
Education 4320
Education 4321
Education 4341
Education 4360
Education 4361
Education 4362
Education 4380
Education 4381
Education 4391

2. One appropriate Independent Study.

- c. Maintenance of a program grade point average of 2.50 in Education courses.
- d. Completion of the appropriate Education major as defined by the program.
- e. Maintenance of a program GPA of 2.50 in the appropriate Education major.

d. Major Requirements for the 50-Course B.A./B.Ed. or B.Sc./B.Ed.

1. Arts and Science Majors

- a. For the B.A., the major program must be chosen from: Anthropology, Art, Dramatic Arts, Economics, English, French, French/German, Geography, German, History, Music, Native American Studies, Physical Education, Political Science, Sociology, a General Major in the Humanities, a General Major in the Social Sciences, or an approved multidisciplinary major in Canadian Studies, Recreation and Leisure Studies or Urban and Regional Studies. The multidisciplinary major in Agricultural Studies is specifically excluded.

For the B.Sc., the major program must be chosen from: Biological Sciences, Chemistry, Geography, Mathematics, Physics, a General Major in the Sciences, or an approved multidisciplinary major in Urban and Regional Studies. The multidisciplinary majors in Agricultural Biotechnology, Agricultural Studies, Biochemistry and Neuroscience are specifically excluded.

- b. All specific requirements for a disciplinary major or the Combined Degrees major as outlined in the next section must be fulfilled.
- c. Not more than 17 courses are to be included in a disciplinary major.
- d. At least 15 courses are required in a multidisciplinary major.
- e. At least one-half of the required courses in the major subject must be completed at the University of Lethbridge.
- f. General Majors (B.A./B.Ed. or B.Sc./B.Ed.) in the Humanities, Social Sciences or Sciences require at least 16 courses for the major, at least six of which must be at the 3000/4000 level (except for the General Major in the Humanities for Modern Languages Education, which requires at least four courses at the 3000/4000 level). General Majors in the Humanities must complete a course in a language other than English; General Majors in the Social Sciences must complete a Quantitatively-based Methodology course; General Majors in the Sciences must complete

a Science in Human Affairs course. For purposes of the B.A. degree with a General Major in the Humanities, French, German and Spanish may not be considered as separate disciplines.

g. **Approved Multidisciplinary Majors**

For information regarding approved multidisciplinary majors, please refer to **Part 5** of this Calendar. The student should also contact an Academic Advisor in the Faculty of Arts and Science. Please note that the multidisciplinary majors in Agricultural Biotechnology, Agricultural Studies, Biochemistry and Neuroscience are specifically excluded from the Combined Degrees.

2. 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, Mathematics Education, Modern Languages Education, Music Education, Native Education, Physical Education, Science Education and Social Studies Education. There is one additional Education major, Career and Technology Studies (CTS): Business Focus; this major is available for the B.Mgt./B.Ed. Combined Degrees program.

For most majors, the requirements for Education and Arts and Science single disciplinary majors are identical; however, some Education majors do require specific and/or additional courses. In other cases there is a distinct Combined Degrees major.

The following Arts and Science majors do not qualify as Education majors: Computer Science, Philosophy, Psychology and Religious Studies and all languages offered by the Department of Modern Languages except French and German.

Students must meet the Education major requirements by completing one of the following:

- a disciplinary major;
- a Combined Degrees major;
- a multidisciplinary major (Agricultural Biotechnology, Agricultural Studies, Biochemistry and Neuroscience are specifically excluded); 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:

<i>Arts and Science Major</i>	<i>Education Major</i>
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/German	Modern Languages Education
Geography	Science Education
Geography	Social Studies Education
German	Modern Languages Education
History	Social Studies Education
Mathematics	Mathematics Education
Music	Music Education
Native American Studies	Native Education
Physical Education	Physical Education
Physics	Science Education
Political Science	Social Studies Education
Recreation and Leisure Studies	Physical Education
Sociology	Social Studies Education
Urban and Regional Studies	Science Education
Urban and Regional Studies	Social Studies Education
General Major in the Humanities	English Language Arts Education
General Major in the Humanities	Modern Languages Education
General Major in the Social Sciences	Native Education
General Major in the Social Sciences	Physical Education
General Major in the Social Sciences	Social Studies Education
General Major in the Sciences	Mathematics Education
General Major in the Sciences	Science 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).

a. Art Education

1. Students may meet the Art Education major requirements by completing the 13-course (39.0 credit hours) disciplinary major in Art.

COMBINED DEGREES

Required courses Include:

- Art 1000 - Introduction to Art
- Art 2230 - Western Art History
15th Century to Present
- Art 3010 (3150) - Drawing
- Art 3002* - Painting
- Art 3008* - Sculpture
- Art 3240 - Canadian Art
History
- Two Art Studio electives (6.0
credit hours)

One of: Art 2030* - Visual Foundations
OR Art 2315 - Fundamentals of
 Drawing, and
 Art 2316 - Fundamentals of Art
 Making, and
 An approved portfolio

One of: Art 3220 - Art: 1945 to 1970
 Art 3270 - Art Since 1970

*6.0 credit hours

Students with an interest in Art Education are also referred to the combined B.F.A. (Art)/B.Ed. (Section 4, pp.198-201, of this Part).

Art/Art Education

Minimum number of credit hours
 required 39.0
 Number of cognate credit hours
 required 0

**Total number of credit hours
 required for the disciplinary Art/
 Art Education major 39.0**

*(Independent Study - Optional; may not be
 counted in required courses for major)*

This section is expressed in credit hours to
 take into account Art courses which are worth
 6.0 credit hours.

b. Biological Sciences Education

Note: Students are advised that the Faculty of
 Education will be combining the Biological
 Sciences major and the Science Education major
 under the name of Science Education.

Students who have not been admitted to the
 Faculty of Education by Fall 1998 will not be
 able to complete the B.Ed. portion as a
 Biological Sciences Education major and will be
 categorized as a Science Education major
 (please refer to Section 3d, pp.172-173, of
 this Part).

**c. Career and Technology Studies (CTS):
 Business Focus**

Students majoring in CTS: Business Focus must
 meet the requirements of the combined
 B.Mgt./B.Ed. program (Section 7, pp. 210-
 213, of this Part).

d. Drama Education

Students may meet the Drama Education
 major requirements by completing the 13-
 course disciplinary major in Dramatic Arts.

Required courses include:

- Drama 1000 - Introduction to Dramatic
Arts
- Drama 2120 - History and Development
of Theatre I
- Drama 2130 - History and Development
of Theatre II
- At least five courses in the major must be
at or above the 3000 level, with at
least one at the 4000 level

Recommended courses also include:

- Drama 2320 - Voice and Diction 1
- Drama 2340 - Movement Studies:
Fundamentals
- Drama 2510 - Theatre for Young
Audiences I
- Drama 2610 - Workshop Production
- Drama 3410 - Directing I

Students with an interest in Drama Education
 are also referred to the combined B.F.A.
 (Drama)/B.Ed. (Section 5, pp. 202-205, of
 this part).

Dramatic Arts/Drama Education

Minimum number of Drama courses
 required 13
 Number of cognate courses required 0

**Total number of courses required for
 the disciplinary Dramatic Arts/
 Drama Education major 13**

*(Independent Study - Optional; may be counted
 in required courses for major)*

e. English Language Arts Education

Students may meet the English Language Arts
 Education major requirements by completing
 the 13-course disciplinary major in English, or
 the 16-course General Major in the
 Humanities.

1. Thirteen-course disciplinary major in English
 English 1900 - The World of Words

Five of: English 2000 - Survey of Canadian Literature
 English 2100 - Poetry
 English 2200 - Fundamentals of Drama
 English 2300 - Prose Fiction
 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 2800 - Rhetoric
 English 2900 - The English Language

One of: English 3401 - Medieval Literature
 English 3601 - Chaucer
 English 3101 - Metaphysical and Cavalier Poetry
 English 3201 - Elizabethan and Jacobean Drama
 English 3402 - Renaissance Literature
 English 3602 - Shakespeare
 English 3102 - 18th-Century Poetry
 English 3202 - Restoration and 18th-Century Drama
 English 3301 - 18th-Century Novel

One of: English 3103 - Romantic Poetry
 English 3104 - Victorian Poetry
 English 3105 - Modern Poetry
 English 3203 - Modern British, Irish and American Drama
 English 3204 - Contemporary British and Irish Drama
 English 3205 - Modern European Drama
 English 3302 - 19th-Century British Novel
 English 3303 - Modern British Novel
 English 3304 - 19th-Century American Novel
 English 3305 - Modern American Novel

One of: English 3001 - Canadian Poetry
 English 3002 - Canadian Drama
 English 3003 - Canadian Fiction
 English 3700 - Genres and Forms Series
 English 3800 - Creative Writing
 English 3880 - Studies in Rhetoric Series
 English 3901 - History of the English Language

One of: English 4000 - Seminars in Canadian Literature Series
 English 4400 - Seminars and Tutorials in English Literature and Language Series
 English 4600 - Major Authors Series
 English 4800 - Advanced Creative Writing Workshop
 Three additional 3000- or 4000-level courses in English

All students majoring in English are required to take a minimum of 13 courses, excluding Independent Studies or Applied Studies. At least seven must be at the 3000/4000 level, of which at least one must be at the 4000 level.

Independent Studies and Applied Studies are definitely encouraged beyond the minimum of 13 courses required for a major.

Note: All B.A./B.Ed. students must present, among the 13 courses, the following:

One course in Canadian Literature, from:

- English 2000 - Survey of Canadian Literature
- English 3001 - Canadian Poetry
- English 3002 - Canadian Drama
- English 3003 - Canadian Fiction
- English 4000 - Seminars in Canadian Literature Series

One course in Children's Literature (English 3700 Series: Children's Literature)

Recommended courses also include:

- One of:** English 2800 - Rhetoric
- English 3800 - Creative Writing
- English 3602 - Shakespeare

English/English Language Arts Education

Minimum number of English courses required 13
 Number of cognate courses required 0

Total number of courses required for the disciplinary English/English Language Arts Education major . . . 13

(Independent Study - Optional; may not be counted in required courses for major)

2. Sixteen-course General Major in the Humanities

Required courses include:

- At least seven courses in English
- Four courses in each of two other disciplines in the Humanities*
- One course in a language other than English
- At least six courses must be at the 3000/4000 level

*The other two Humanities disciplines must be chosen from among the following:

- One of Art, Dramatic Arts or Music
- Classical Languages (includes Greek, Hebrew or Latin)
- French, German or Spanish (one only; Linguistics 2300 may be substituted for one of the courses in the chosen language)
- History
- Native American Studies (includes Blackfoot and Cree)
- Philosophy
- Religious Studies

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

Minimum number of Arts and Science courses required 16

Total number of Arts and Science courses required for the General Major in the Humanities/English Language Arts Education major . . . 16

(Independent Study - Optional; may be counted in required courses for major)

f. Mathematics Education

Students may meet the Mathematics Education major requirements by completing the 13-course Combined Degrees major in Mathematics, or the 16-course General Major in the Sciences.

1. Thirteen-course Combined Degrees major in Mathematics

Students must complete at least 13 courses offered by the Department of Mathematics and Computer Science, including the following:

Required Courses:

- Mathematics 1410 (1450) - Elementary Linear Algebra
- Mathematics 1560 - Calculus I
- Mathematics 2000 (2450) - Mathematical Concepts
- Mathematics 2560 - Calculus II
- Mathematics 2570 - Calculus III
- Mathematics 2580 - Calculus IV
- Mathematics 3400 - Group and Ring Theory
- Mathematics 3410 (3450) - Linear Algebra
- Mathematics 3500 - Analysis
- One additional 3000/4000-level Mathematics or Statistics course regularly offered by the Department of Mathematics and Computer Science (excluding Mathematics 3980/4980, Statistics 3980/4980 - Applied Studies and Mathematics 3990/4990, Statistics 3990/4990 - Independent Study)

Required Cognates:

- Computer Science 1620 (1600) - Introduction to a Programming Language
- Statistics 1770 - Introduction to Probability and Statistics
- Statistics 2780 - Statistical Inference

Note: A 3000/4000-level Mathematics course regularly offered by the Department of Mathematics and Computer Science (excluding Mathematics 3980/4980 - Applied Studies or Mathematics 3990/4990 - Independent Study) may replace Statistics 2780 in the list of required cognate courses.

Note: The Computer Science major in Arts and Science does not meet the Mathematics Education major requirements.

Mathematics/Mathematics Education

Minimum number of Mathematics courses required 10

Number of cognate courses required 3

Total number of courses required for the Combined Degrees Mathematics/Mathematics Education major 13

(Independent Study - Optional; may not be counted in required courses for major)

2. Sixteen-course General Major in the Sciences

Required courses include:

- At least seven courses in Mathematics
- Four courses in each of two other disciplines in the Sciences*
- One course in Science in Human Affairs**
- At least six courses must be at the 3000/4000 level

*The other two Science disciplines must be chosen from among the following:

- Archaeology
- Biological Sciences (includes Biology, Botany and Zoology)
- Chemistry
- Computer Science
- Geography (all courses designated Science; includes courses in Geology)
- Physical Education (all courses designated Science; Physical Activity courses may not be included)
- Physics (includes Astronomy and Engineering)
- Psychology (all courses designated Science)

Students are strongly encouraged to choose Science disciplines which are school subject areas or are taught in the provincial curriculum.

**The Science in Human Affairs course must be chosen from the following:

- Biology 2050 - Biology and Human Affairs
- Chemistry 2250 - Elements of Human Nutrition
- Geography 2060 - Environmental Systems
- Philosophy 2231 - Philosophy and the World View of Science: Space, Time and Matter
- Philosophy 2232 - Philosophy and the World View of Science: Earth and Life Sciences
- Philosophy 3402 - Biomedical Ethics
- Physics 2020 - Physics and Society
- Psychology 3810 - Environmental Psychology

General Major in the Sciences/ Mathematics Education	
Minimum number of Arts and Science courses required	16
Total number of courses required for the General Major in the Sciences/Mathematics Education major	16
<i>(Independent Study - Optional; may be counted in required courses for major)</i>	

g. **Modern Languages Education**

Students may meet the Modern Languages Education major requirements by completing the 13-course Combined Degrees major in French, or the 13-course disciplinary major in German, or the 15-course French/German major, or the 16-course General Major in the Humanities.

1. Thirteen-course Combined Degrees major in French

Majors must successfully complete a minimum of ten courses in French.

Required courses include:

- French 2250 - French Immersion
- French 2400 - Phonetics and Diction
- Five of the ten courses must at the 3000/4000 level

Recommended courses include:

- French 3200 - Culture and Civilization II (French-Canadian)
- French 3600 - Literary Genres (Song)
- French 3600 - Literary Genres (Children's Literature)

In addition students must complete the following:

- Linguistics 2300 - Introduction to Linguistics
- Participation in one 13-week off-campus study semester at a francophone university. Students must take two courses for which the language of instruction is French.

French/Modern Languages Education	
Minimum number of French courses required	10
Number of cognate or other courses required	3
Total number of courses required for the Combined Degrees French/Modern Languages Education major	13
<i>(Independent Study - Optional; may be counted in required courses for major)</i>	

COMBINED DEGREES

2. Thirteen-course disciplinary major in German

Required courses include:

- German 2250 - German Immersion
- Linguistics 2300 - Introduction to Linguistics
- A minimum of seven courses at the 3000/4000 level, of which at least two must be at the 4000 level
- Participation in the Department's German Visiting Student program is compulsory for students majoring in German. For details, see the German Off-Campus Studies Coordinator in the Department of Modern Languages

German/Modern Languages Education

Minimum number of German courses required13
 Number of cognate courses required0

Total number of courses required for the disciplinary German/Modern Languages Education major 13

(Independent Study - Optional; may be counted in required courses for major)

3. Fifteen-course French/German major

Required courses include:

- A minimum of eight courses in French, which must include French 2400 - Phonetics and Diction
- A minimum of six courses in German
- Linguistics 2300 - Introduction to Linguistics
- Four courses must be at the 3000/4000 level, of which three must be in either French or German

- One of:** French 2250 - French Immersion
 German 2250 - German Immersion

French/German / Modern Languages Education

Total number of courses required for the French/German / Modern Languages Education major 15

(Independent Study - Optional; may be counted in required courses for major)

4. Sixteen-course General Major in the Humanities

Required courses include:

- At least seven courses in French or German (one of which must be French 2400 for French focus majors)
- Four courses in each of two other disciplines in the Humanities*
- Linguistics 2300 - Introduction to Linguistics
- One additional course in a language other than English
- At least four courses must be at the 3000/4000 level

**The other two Humanities disciplines must be chosen from among the following:*

- One of Art, Dramatic Arts or Music Classical Languages (includes Greek, Hebrew or Latin)*
- English*
- History*
- Native American Studies (includes Blackfoot and Cree)*
- Philosophy*
- Religious Studies*

Note: *Students are advised that they may not select two disciplines within Modern Languages.*

Students are strongly encouraged to choose Humanities disciplines which are school subject areas or are taught in the provincial curriculum and to enrol in French 2250 or German 2250.

General Major in the Humanities/Modern Languages Education

Minimum number of Arts and Science courses required 16

Total number of Arts and Science courses required for the General Major in the Humanities/Modern Languages Education major 16

(Independent Study - Optional; may be counted in required courses for major)

h. Music Education

- Students may meet the Music Education major requirements by completing the 15-course (45.0 credit hours) disciplinary major in Music (General Stream).

Required courses include:

a. Music History/Literature Requirement

- Music 1021 - Music Foundations*
- Music 2321 - History and Literature of Music in Western Civilization I: Baroque and Classic Periods
- Music 2421 - History and Literature of Music in Western Civilization II: The Romantic Period

*Students with transfer credit for Music 1000 will have met this requirement.

b. Music Theory Requirement

- Music 2111 - Music Theory I
- Music 2211 - Music Theory II
- Music 3311 (2311) - Music Theory III
- Music 3411 (2411) - Music Theory IV

c. General Stream

- Music 2148 - Music Studio I - (Instrument)
- Music 2248 - Music Studio II - (Instrument)
- Music 3348 (2348) - Music Studio III - (Instrument)
- Music 3448 (2448) - Music Studio IV - (Instrument)
- Music 3500 - Conducting I
- Music 3721 (2600) - World Music

Four Music Ensemble Activity courses (Each Music Ensemble Activity counts as one-half course).

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 Vox Musica
Studio pianists	A minimum of two semesters of: Accompanying, and one of: University Singers Vox Musica Wind Orchestra
Studio string	Any of: Accompanying University Singers Vox Musica Wind Orchestra (or through Independent Study by permission of the Division of Music)

No more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given semester.

Students with an interest in Music Education are also referred to the combined B.Mus./B.Ed. (Section 6, pp. 206-209, of this Part).

Music/Music Education

Minimum number of credit hours required	39.0
Minimum number of Ensemble Activity credit hours required (one-half credit hour courses)	6.0
Number of cognate credit hours required	0

Total number of credit hours required for the disciplinary Music/Music Education major **45.0**

(Independent Study - Optional; may not be counted in required courses for major)

This section is expressed in credit hours to take into account Music Ensemble Activity courses which are worth 1.5 credit hours.

i. Native Education

Students may meet the Native Education major requirements by completing the 13-course disciplinary major in Native American Studies, or the 16-course General Major in the Social Sciences.

- Thirteen-course disciplinary major in Native American Studies

Required courses include:

Blackfoot and Cree Languages

One course in either language

Art and Literature

- One of:** Native American Studies 2300 - Native American Indian Art History and Theory
 Native American Studies 2350 - Native American Indian Art Studio
 Native American Studies 2600 - Native American Literature

Culture and History

- One of:** Native American Studies 2000 - Native American Philosophy
 Native American Studies 2500 - Canadian Indian History
 Native American Studies 2550 - U.S. Indian History

Law and Politics

- One of:** Native American Studies 2100 - Aboriginal Peoples and Law
 Native American Studies 2150 - Native Rights in the United States
 Native American Studies 2800 - Native American Politics

Contemporary Issues

One of: Native American Studies 2400 -
Traditional Aboriginal
Political Economy
Native American Studies 2700 -
Native American Women
Native American Studies 3700 -
Native American Health

Of the 13-course major, at least three courses must be at the 3000 level and at least one at the 4000 level.

Additional requirements for the Native Education major must include:

- A seven-course school subject minor
- Completion of Professional Semester II in the declared minor
- A Methods course in Native Education
- Completion of Professional Semester III in Special Focus: Native Education (Fall only)

Native American Studies/Native Education

Minimum number of Native American Studies courses required 13
Number of cognate courses required 0

Total number of courses required for the disciplinary Native American Studies/Native Education major 13

(Independent Study - Optional; may be counted in required courses for major)

Additional Requirements for the Native Education Major

- A seven-course school subject minor
- Completion of Professional Semester II in the minor
- A Methods course in Native Education
- Completion of Professional Semester III in Special Focus: Native Education (Fall Only)

- Sixteen-course General Major in the Social Sciences

Required courses include:

- At least seven courses in Native American Studies (Blackfoot and Cree may not be included)
- Four courses in each of two other disciplines in the Social Sciences*
- One Quantitatively-based Methodology course**
- At least six courses must be at the 3000/4000 level

*The other two Social Sciences disciplines must be chosen from among the following:

- Anthropology
- Economics (all courses designated Social Science)
- Geography (all courses designated Social Science; Geography 1000 may be included; Archaeology and Geology courses may not be included)
- History
- Physical Education (all courses designated Social Science; Physical Activity courses may not be included)
- Political Science
- Psychology (all courses designated Social Science; Psychology 1000 and 2010 may be included)
- Sociology
- Women's Studies

Note: Students who select Women's Studies as one of the disciplinary streams must include:

- Women's Studies 2000 - Issues in Women's Studies
- Women's Studies 3500 - Feminist Theory
- One of: Women's Studies 2700 - Feminist Research and Methodologies
- Sociology 3120 - Qualitative Research Methods

Students are strongly encouraged to choose Social Sciences disciplines which are school subject areas or are taught in the provincial curriculum.

**The Quantitatively-based Methodology course must be chosen from among the following:

- Economics 2900 - Quantitative Methods in Economics
- Geography 3730 - Spatial Statistics
- Psychology 3010 (2400) - Introduction to Statistics in Psychological Research
- Sociology 2130 - Social Statistics
- Statistics 2780 - Statistical Inference

Additional requirements for the Native Education major must include:

- A seven-course school subject minor
- Completion of Professional Semester II in the minor
- A Methods course in Native Education
- Completion of Professional Semester III in Special Focus: Native Education (Fall Only)

General Major in the Social Sciences/Native Education

Minimum number of Arts and Science courses required 16

Total number of Arts and Science courses required for the General Major in the Social Sciences/ Native Education major 16

(Independent Study - Optional; may be counted in required courses for major)

Additional Requirements for the Native Education Major

A seven-course school subject minor
Completion of Professional Semester II in the minor

A Methods course in Native Education
Completion of Professional Semester III in Special Focus: Native Education (Fall only)

j. Physical Education

Students may meet the Physical Education major requirements by completing the 13-course disciplinary major in Physical Education, the 15-course multidisciplinary major in Recreation and Leisure Studies, or the 16-course General Major in the Social Sciences.

1. Thirteen-course disciplinary major in Physical Education

Required courses include:

Ten theory courses

- Physical Education 1000 - Wellness and Physical Activity
- Physical Education 2000 - Foundations of Motor Skill Acquisition
- Physical Education 2110 - Biological and Physical Science Dimensions of Physical Activity Involvement
- Physical Education 2120 - Sociological and Psychological Dimensions of Physical Activity Involvement
- Physical Education 2130 - Humanities Dimensions of Physical Activity Involvement
- Physical Education 2200 - Research Methodologies in Physical Activity Involvement
- Physical Education 4620 - Leadership and Management of Physical Education, Sport and Recreation

Physical Education 4900 - Seminar

Two more Physical Education courses, one of which must be at or above the 3000 level

Six Physical Activity courses, including at least one from each of the following three groups and two of the six at the 3000 level or higher:

Group A

- Physical Activity 1605 - Curling
- Physical Activity 1615 - Court Games
- Physical Activity 1625 - Golf
- Physical Activity 1635 - Tennis
- Physical Activity 1655 - Ice Skating
- Physical Activity 1665 - Archery
- Physical Activity 1675 - Bowling
- Physical Activity 1685 - Badminton
- Physical Activity 2005 - Swimming I
- Physical Activity 2155 - Track and Field I
- Physical Activity 2705 - Outdoor Education: Summer Activities
- Physical Activity 2715 - Outdoor Education: Winter Activities
- Physical Activity 3005 - Swimming II
- Physical Activity 3155 - Track and Field II
- Physical Activity 4005 - Swimming III

Group B

- Physical Activity 1125 - Rhythmic Gymnastics
- Physical Activity 1205 - Folk and Square Dance
- Physical Activity 1215 - Social and Round Dance
- Physical Activity 1695 - Fencing
- Physical Activity 2125 - Artistic Gymnastics
- Physical Activity 2225 - Children's Dance
- Physical Activity 2235 - Creative Dance
- Physical Activity 2405 - Wrestling I
- Physical Activity 2425 (1415) - Judo I

COMBINED DEGREES

Physical Activity 2445 (1645) -
Weight Training I
Physical Activity 3105 - Men's
Artistic Gymnastics
Physical Activity 3115 -
Women's Artistic Gym-
nastics
Physical Activity 3405 -
Wrestling II
Physical Activity 3425 (2415) -
Judo II
Physical Activity 3445 (2645) -
Weight Training II

Group C

Physical Activity 2505 -
Basketball I
Physical Activity 2515 - Football I
Physical Activity 2525 - Ice
Hockey I
Physical Activity 2535 - Soccer I
Physical Activity 2545 -
Volleyball I
Physical Activity 3505 -
Basketball II
Physical Activity 3515 - Football II
Physical Activity 3525 - Ice
Hockey II
Physical Activity 3535 - Soccer II
Physical Activity 3545 -
Volleyball II

Note:

All B.A./B.Ed. students, must present, among the six Physical Activity courses, the following:

One course of Gymnastics:

PHAC 1125, 2125, 3105, 3115 -
Gymnastics

One course of Dance:

PHAC 1205, 1215, 2225, 2235 - Dance

One course of Lifetime Skills:

PHAC 2155, 3155 - Track and Field
PHAC 1655 - Ice Skating
PHAC 1685 - Badminton
PHAC 2445, 3445 - Weight Training
PHAC 2705, 2715 - Outdoor Education

One course of Team Sports:

PHAC 2505, 3505 - Basketball
PHAC 2545, 3545 - Volleyball
PHAC 2535, 3535 - Soccer

Students are strongly encouraged to complete Physical Activity courses which complement the school curriculum. Contact Student Program Services in the Faculty of Education for information.

Physical Education/Physical Education

Minimum number of credit hours required	30.0
Minimum number of Physical Activity credit hours required	9.0
Number of cognate credit hours required	0

Total number of credit hours required for the disciplinary Physical Education/Physical Education major **39.0**

(Independent Study - Optional; may be counted in required courses for major)

This section is expressed in credit hours to take into account Physical Activity courses which are worth 1.5 credit hours.

2. Fifteen-course multidisciplinary major in Recreation and Leisure Studies.

Students are strongly advised to see Academic Advisors in the Faculties of Arts and Science and Education.

Please refer to **Part 5, Section 17bb. (pp.104-106)** for information on the multidisciplinary major in Recreation and Leisure Studies.

3. Sixteen-course General Major in the Social Sciences

Required courses include:

At least seven courses in Physical Education, two of which must be Physical Education 2000 and 4620

Four courses in each of two other disciplines in the Social Sciences*

One Quantitatively-based Methodology course**

At least six courses must be at the 3000/4000 level, at least two of which must be from the Social Sciences offerings in Physical Education

*The other two Social Sciences disciplines must be chosen from among the following:

Anthropology

Economics (all courses designated Social Science)

Geography (all courses designated Social Science; Geography 1000 may be included; Archaeology and Geology courses may not be included)

History

Native American Studies (Blackfoot and Cree courses may not be included)

Political Science
 Psychology (all courses designated
 Social Science; Psychology 1000 and
 2010 may be included)

Sociology

Women's Studies

Note: Students who select Women's
 Studies as one of the
 disciplinary streams must
 include:

Women's Studies 2000 -
 Issues in Women's
 Studies

Women's Studies 3500 -
 Feminist Theory

One of: Women's Studies 2700 -
 Feminist Research
 and Methodologies

Sociology 3120 -
 Qualitative Research
 Methods

**Students are strongly encouraged to
 choose Social Sciences disciplines
 which are school subject areas or are
 taught in the provincial curriculum.**

****The Quantitatively-based Methodology course must
 be chosen from among the following:**

Economics 2900 - Quantitative
 Methods in Economics

Geography 3730 - Spatial Statistics

Psychology 3010 (2400) - Introduction to
 Statistics in Psychological Research

Sociology 2130 - Social Statistics

Statistics 2780 - Statistical Inference

**General Major in the Social
 Sciences/Physical Education**

Minimum number of Arts and Science
 courses required 16

**Total number of Arts and Science
 courses required for the General
 Major in the Social Sciences/
 Physical Education major 16**

*(Independent Study - Optional; may be counted
 in required courses for major)*

k. Science Education

Students may meet the Science Education
 major requirements by completing the 13-
 course Combined Degrees major in Biological
 Sciences, the Combined Degrees major in
 Chemistry, the 10-course Combined Degrees
 major in Geography (Physical Geography), the
 12-course Combined Degrees major in
 Physics, the multidisciplinary major in Urban
 and Regional Studies, or the 16-course General
 Major in the Sciences.

1. Thirteen-course Combined Degrees
 major in Biological Sciences

Required courses include:

Biology 1010 (Biology 1000
 prior to 1996/97) - Cellular
 Basis of Life

Biology 1020* - Diversity of Life
 Biology 2000 - Principles of
 Genetics

Biology 2200 - Principles of
 Ecology

Biology 3300 - Evolution

Plus: A minimum of two courses in
 two of the following areas: Biology, Botany
 or Zoology, plus a minimum of one
 course in the third area. Of these five
 courses, at least three must at the 3000
 or 4000 level.

**Students who have taken both Botany 2000 and
 Zoology 2000 prior to 1996/1997 will have met
 this requirement.*

Required cognates include:

One Chemistry course;
 Chemistry 2100 (Elements
 of Organic Chemistry I) is
 recommended

One Physics course; Physics
 1050 (Introduction to
 Biophysics) is recommended

One course in Computer
 Science, Mathematics or
 Statistics

Recommended courses also include:

Biology 2050 - Biology and
 Human Affairs

Botany 2150 - Field Botany

Zoology 2150 - Field Zoology

Biological Sciences/Science Education

Minimum number of Biological Sciences
 courses required 10

Number of cognate courses required 3

**Total number of courses required
 for the Combined Degrees
 Biological Sciences/Science
 Education major 13**

*(Independent Study - Optional; may be counted
 in required courses for major)*

2. Combined Degrees major in Chemistry

The major in Chemistry requires a
 minimum of ten Chemistry courses; a
 maximum of 17 courses is allowed for the
 B.Sc./B.Ed. degree. In addition, at least one
 course in each of Mathematics and
 Physics is required.

COMBINED DEGREES

List A - Required Chemistry Courses

The following Chemistry courses must be taken:

- Chemistry 1000 - Atoms, Molecules and Chemical Reactions
- Chemistry 2000 - Chemical Equilibrium and Electrochemistry
- Chemistry 2410 - Introduction to Analytical Chemistry
- Chemistry 2500 - Organic Chemistry I
- Chemistry 2600 - Organic Chemistry II
- Chemistry 2710 - Chemical Kinetics
- Chemistry 2720 - Introduction to Chemical Thermodynamics
- Chemistry 2810 - Introduction to Inorganic Chemistry

List B - Elective Chemistry Courses

Choose two courses from this list to complete the requirement of a minimum of ten courses in Chemistry:

- Chemistry 3310 - Biochemistry I
- Chemistry 3320 - Biochemistry II
- Chemistry 3410 - Instrumental Methods of Analysis
- Chemistry 3420 - Electroanalytical Chemistry
- Chemistry 3500 - Organic Chemistry III
- Chemistry 3730 - Quantum Principles and Spectroscopy
- Chemistry 3810 - Chemistry of the Main Group Elements
- Chemistry 3820 - Chemistry of the Transition Elements

List C - Required Mathematics and Physics Courses

The following courses must also be taken:

- Physics 1000 - Introduction to Physics I
- Mathematics 1560 - Calculus I
- Mathematics 2560 - Calculus II (if Chemistry 3730 is included in the major)

The major in Chemistry for the Combined Degrees program is not accredited by the Canadian Society for Chemistry nor is it normally sufficient, in the absence of further study in the field, for pursuing graduate studies in Chemistry at a Canadian university.

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. As a result, careful planning of the program for the major in Chemistry is required in order to be in position to take courses when they are offered. Consequently, students who intend to pursue a degree program 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 Chemistry Department at an early stage of their studies.

Chemistry/Science Education

Minimum number of Chemistry courses required 10
Number of cognate courses required 2 or 3

Total number of courses required for the Combined Degrees Chemistry/Science Education major 12 or 13

The number of required courses in the major is determined by the student's course selection (see List C in this major for more information).

(Independent Study - Optional; may not be counted in required courses for major)

3. Ten-course Combined Degrees major in Geography

Students must complete a minimum of ten courses.

Required courses include:

- Geography 1000 - Introduction to Physical Geography
- Geography 2015 - Weather and Climate
- Geography 2030 - Geomorphology
- Geography 2060 - Environmental Systems
- Geography 2200 - Introduction to Human Geography
- Geography 2210 - Urban and Economic Geography
- Geography 2700 - Geographical Data and Analysis
- Plus three further courses in Geography, at least two of which must be at the 3000 or 4000 level

Geography/Science Education	
Minimum number of Geography courses required	10
Number of cognate courses required	0
Total number of courses required for the Combined Degrees Geography/ Science Education major	
	10
<i>(Independent Study - Optional; may be counted in required courses for major)</i>	

4. Twelve-course Combined Degrees major in Physics

Required courses include:

- One of:** Physics 1000 - Introduction to Physics I
 Physics 1050 - Introduction to Biophysics
 Physics 2000 - Introduction to Physics II
 Physics 2020 - Physics and Society
 Physics 2150 - Wave Mechanics
 Physics 2600 - Electricity and Magnetism
 Physics 2800 - Methods in Mathematical Physics
 Physics 2900 - Experiments in Physics

- One of:** Physics 3150 - Quantum Mechanics I
 Physics 3650 - Electromagnetic Radiation

Two other courses offered by the Department of Physics, one of which may be in Astronomy or Engineering

Required cognates:

- Mathematics 1560 - Calculus I
 Mathematics 2560 - Calculus II

It is recommended that Physics majors in Combined Degrees include courses in Computer Science, Chemistry, Mathematics and Biological Sciences. Since a number of courses are offered only in alternate years, students are advised to plan carefully to include the desired courses.

Physics/Science Education	
Minimum number of Physics courses required	10
Number of cognate courses required	2
Total number of courses required for the Combined Degrees Physics/ Science Education major	
	12
<i>(Independent Study - Optional; may be counted in required courses for major)</i>	

5. A multidisciplinary major in Urban and Regional Studies

Students are strongly advised to see Academic Advisors in the Faculties of Arts and Science and Education for specific details concerning this major for the Combined Degrees program.

Please refer to **Part 5, Section 14ff. (pp. 108-110)** for information on the multidisciplinary major in Urban and Regional Studies.

6. Sixteen-course General Major in the Sciences

Required courses include:

At least seven courses in Biological Sciences, Chemistry, Physical Geography or Physics

Four courses in one other area of Biological Sciences, Chemistry, Physical Geography or Physics

Four courses from another discipline in the Sciences*

One course in Science in Human Affairs**

At least six courses must be at the 3000/4000 level

*The other Science discipline must be chosen from among the following:

- Archaeology
- Biological Sciences (includes Biology, Botany and Zoology)
- Chemistry
- Computer Science
- Geography (all courses designated Science; includes courses in Geology)
- Physical Education (all courses designated Science; physical activity courses may not be included)
- Physics (includes Astronomy and Engineering)
- Psychology (all courses designated Science)

Students are strongly encouraged to choose Science disciplines which are school subject areas or are taught in the provincial curriculum.

**The Science in Human Affairs course must be chosen from among the following:

- Biology 2050 - Biology and Human Affairs
- Chemistry 2250 - Elements of Human Nutrition
- Geography 2060 - Environmental Systems

COMBINED DEGREES

Philosophy 2231 - Philosophy and the World View of Science: Space, Time and Matter
 Philosophy 2232 - Philosophy and the World View of Science: Earth and Life Sciences
 Philosophy 3402 - Biomedical Ethics
 Physics 2020 - Physics and Society
 Psychology 3810 - Environmental Psychology

Three courses from the 4000 level, excluding Anthropology 4980 (Applied Studies) and Anthropology 4990 (Independent Studies)

General Major in the Sciences/Science Education

Minimum number of Arts and Science courses required 16

Total number of Arts and Science courses required for the General Major in the Sciences/Science Education major 16

(Independent Study - Optional; may be counted in required courses for major)

Anthropology/Social Studies Education

Minimum number of Anthropology courses required 13
 Number of cognate courses required 0

Total number of courses required for the disciplinary Anthropology/Social Studies Education major 13

(Independent Study - Optional; may not be counted in required courses for major)

I. Social Studies Education

Students may meet the Social Studies Education major requirements by completing the 13-course disciplinary major in Anthropology, the 13-course disciplinary major in Economics, the 10-course Combined Degrees major in Geography, the 10-course Combined Degrees major in History, the 13-course disciplinary major in Political Science, the 10-course Combined Degrees major in Sociology, the 15-course multidisciplinary major in Canadian Studies or Urban and Regional Studies, or the 16-course General Major in the Social Sciences.

1. Thirteen-course disciplinary major in Anthropology

Students must complete a minimum of 13 courses.

Required courses include:

- Anthropology 1000 - Introduction to Social/Cultural Anthropology
- Two courses at the 2000 level
- Anthropology 3000 - The History of Anthropological Thought
- One course from Anthropology 3100 - Series on Regional Ethnography
- Three additional courses from the 3000 level, excluding Anthropology 3980 (Applied Studies) and Anthropology 3990 (Independent Studies)

2. Thirteen-course disciplinary major in Economics

Required courses include:

- Economics 1001 - Introduction to Economics
- Economics 2000 - Principles of Macroeconomics
- Economics 2001 - Principles of Microeconomics
- Economics 2900 - Quantitative Methods in Economics
- Economics 3000 - Intermediate Macroeconomic Theory
- Economics 3001 - Intermediate Microeconomic Theory

At least three Economics courses at the 4000 level

Economics/Social Studies Education

Minimum number of Economics courses required 13
 Number of cognate courses required 0

Total number of courses required for the disciplinary Economics/Social Studies Education major 13

(Independent Study - Optional; may be counted in required courses for major)

3. Ten-course Combined Degrees major in Geography

Students must complete a minimum of 10 courses.

Required courses include:

- Geography 1000 - Introduction to Physical Geography
- Geography 2200 - Introduction to Human Geography

Geography 2210 - Urban and Economic Geography
 Geography 2600 - Canada
 Geography 2700 - Geographical Data and Analysis

Two of: Geography 2015 - Weather and Climate
 Geography 2030 - Geomorphology
 Geography 2060 - Environmental Systems

Plus three further courses in Geography, at least two of which must be at the 3000/4000 level

Geography/Social Studies Education	
Minimum number of Geography courses required	10
Number of cognate courses required	0
Total number of courses required for the Combined Degrees Geography/Social Studies Education major	
10	
<i>(Independent Study - Optional; may be counted in required courses for major)</i>	

4. Ten-course Combined Degrees major in History

Required courses include:

History 1000 - Western Civilization

Three of: History 2001 - Main Themes in Ancient History
 History 2200 - Main Themes in Russian History
 History 2250 - China in the 19th and 20th Centuries
 OR 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 - History of Women

One of: History 2102 - Early Modern Europe - 1500-1750
 History 2150 - The Politics of Europe - 1750-1914

One of: History 2710 - Canada to 1867
 History 2720 - Canada since 1867

Four History courses at the 3000 level or higher, including at least two 4000-level courses (excluding History 4980 - Applied Studies and History 4990 - Independent Studies).

The Department strongly advises students intending to pursue graduate studies to take History 4000 and 4990. History majors should meet with the Department advisor once a semester in order to ensure that an appropriate program is being planned.

History/Social Studies Education	
Minimum number of History courses required	10
Number of cognate courses required	0
Total number of courses required for the Combined Degrees History/Social Studies Education major	
10	
<i>(Independent Study - Optional; may be counted in required courses for major)</i>	

5. Thirteen-course disciplinary major in Political Science

Students must complete a minimum of 13 courses.

Required courses include:

At least four courses at the 2000 level in four different subfields
 At least one course at the 4000 level
 At least six courses at the 3000 level, drawn from at least three of the following subfields:

International Relations
 Political Science 3120 - Canadian Foreign Policy
 Political Science 3150 - International Politics and Foreign Policy
 Political Science 3160 - International Law and Organization



Canadian Government

- Political Science 3120 - Canadian Foreign Policy
 Political Science 3210 - Urban Government and Politics
 Political Science 3230 - Provincial Government and Politics
 Political Science 3241 (3240) - Canadian Constitutional Law I: The Structures and Powers
 Political Science 3242 (3240) - Canadian Constitutional Law II: The Charter
 Political Science 3250 - Alberta Politics and Government
 Political Science 3260 - Canadian Public Policy

Comparative Politics

- Political Science 3320 - Western European Political Systems
 Political Science 3330 - Russia and Environs
 Political Science 3340 - American Government
 Political Science 3350 - Government and Politics of South Asia
 Political Science 3360 - Developing Nations
 Political Science 3370 - African Politics
 Political Science 3430 - Comparative Public Administration

Public Administration

- Political Science 3410/Management 3030 - Organizational Behaviour, Theory and Design
 Political Science 3420/Management 3050 - Human Resource Management
 Political Science 3430 - Comparative Public Administration

Political Theory

- Political Science 3510 - History of Political Thought
 Political Science 3520 - Socialism and Communism

Political Behaviour

- Political Science 3710 - Public Opinion and Propaganda
 Political Science 3730 - Mass Media and Politics

At the discretion of the Department, Special Topics (3850) and Independent Study (3990) credit may also be taken as satisfying subfield requirements.

Political Science/Social Studies Education

Minimum number of Political Science courses required 13
 Number of cognate courses required 0

Total number of courses required for the disciplinary Political Science/Social Studies Education major 13

(Independent Study - Optional; may be counted in required courses for major)

6. Ten-course Combined Degrees major in Sociology

Required courses include:

- Sociology 1000 - Basic Concepts in Sociology
 Sociology 2100 - Research Methodology
 Sociology 2200 - Classical Sociological Theory
 Sociology 2210 - Contemporary Sociological Theory

Five 3000/4000-level options in Sociology

- One of:** Sociology 3110 - Survey Research
 Sociology 3120 - Qualitative Research Methods

Sociology/Social Studies Education

Minimum number of Sociology courses required 10
 Number of cognate courses required 0

Total number of courses required for the Combined Degrees Sociology/Social Studies Education major 10

(Independent Study - Optional; may be counted in required courses for major)

7. Fifteen-course multidisciplinary major in Canadian Studies or Urban and Regional Studies. Students are strongly advised to see Academic Advisors in the Faculties of Arts and Science and Education.

Please refer to **Part 5, Section 14h**, and **14ff. (pp.87-88 and pp. 108-110 respectively)** for information on the multidisciplinary majors in Canadian Studies and Urban and Regional Studies.

8. Sixteen-course General Major in the Social Sciences

Required courses include:

- At least seven courses in a first Social Sciences disciplinary stream
- Four courses in each of two other disciplines in the Social Sciences*
- One Quantitatively-based Methodology course**
- At least six courses must be at the 3000/4000 level

*The Social Sciences disciplines must be chosen from among the following:

- Anthropology
- Economics (all courses designated Social Science)
- Geography (all courses designated Social Science; Geography 1000 may be included; Archaeology and Geology courses may not be included)
- History
- Native American Studies (Blackfoot and Cree courses may not be included)
- Physical Education (all courses designated Social Science; Physical Activity courses may not be included)
- Political Science
- Psychology (all courses designated Social Science; Psychology 1000 and 2010 may be included)
- Sociology
- Women's Studies

Note: Students who select Women's Studies as one of the disciplinary streams must include:

- Women's Studies 2000 - Issues in Women's Studies
- Women's Studies 3500 - Feminist Theory
- One of: Women's Studies 2700 - Feminist Research and Methodologies
- Sociology 3120 - Qualitative Research Methods

Students are strongly encouraged to choose Social Sciences disciplines which are school subject areas or are taught in the provincial curriculum.

**The Quantitatively-based Methodology course must be chosen from among the following:

- Economics 2900 - Quantitative Methods in Economics
- Geography 3730 - Spatial Statistics

- Psychology 3010 (2400) - Introduction to Statistics in Psychological Research
- Sociology 2130 - Social Statistics
- Statistics 2780 - Statistical Inference

General Major in the Social Sciences/Social Studies Education	
Minimum number of Arts and Science courses required	16
Total number of Arts and Science courses required for the General Major in the Social Sciences/Social Studies major	16
<i>(Independent Study - Optional; may be counted in required courses for major)</i>	

e. **Education Minor Requirements**

Students may elect to complete a minor in addition to a major. The minor must be a school subject.

There are 19 Education minors: Art Education, Blackfoot Language Education, Career And Technology Studies (CTS): Agriculture Focus, Career And Technology Studies (CTS): Business Focus, 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, Environmental/Outdoor Education, Mathematics Education, Modern Languages Education (French or German), Music Education, Native Education, Physical Education, Religious Studies Education, Science Education and Social Studies Education.

With the exception of the minor for Native Education majors, minors include five non-Education courses and an appropriate Education methods course, usually selected from the Education 3700 series. The minor for Native Education majors includes seven non-Education courses in a school subject and an appropriate Education methods course.

Students are eligible to receive an endorsement on their official transcripts upon completion of a minor.

Note: For Native Education majors, the additional courses for completion of a minor are two electives in the school subject.

Education students completing a General Major may not include, in any minor, any of the courses which are included in the General Major.

COMBINED DEGREES

1. Art Education

Required courses:

Art 2030* - Visual Foundations
 Art 2230 - Western Art History
 15th Century to Present
 Art Studio elective(s) (to total
 6.0 credit hours)

*6.0 credit hours

2. Blackfoot Language Education

Required courses:

Linguistics 2300 - Introduction
 to Linguistics

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

Note:

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 Faculty of Management. 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.

3. Career and Technology Studies (CTS):
Agricultural Focus

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

Required courses:

Five of: Agricultural Studies 1000 -
 Evolution of Agriculture
 **Agricultural Studies 2000 -
 Agricultural Systems Model-
 ling I
 **Agricultural Studies 3000 -
 Agricultural Systems Model-
 ling II
 Biology 1010 (Biology 1000
 prior to 1996/1997) -
 Cellular Basis of Life
 Biology 1020 - Diversity of Life
 **Biology 2000 - Principles of
 Genetics
 Biology 2050 - Biology and
 Human Affairs

**Biology 2200 - Principles of
 Ecology
 **Biology 3200 (Microbiology
 2000) - Principles of
 Microbiology
 **Biology 4200 - Techniques in
 Molecular Biology
 **Biology 4820 - Symbiosis and
 Parasitism
 **Botany 2150 - Field Botany
 **Botany 3300 - Plant Physiology
 **Botany 3400 - Plant Ecology
 **Botany 3500 - Plant Anatomy
 and Morphology
 **Botany 3700 - Plant
 Biotechnology
 Economics 1001 - Introduction
 to Economics
 **Economics 2001 - Principles of
 Microeconomics
 **Economics 3001 - Intermediate
 Microeconomic Theory
 **Economics 3210 - Natural
 Resource Economics
 **Economics 3220 -
 Environmental Economics
 **Economics 3300 - Agricultural
 Policy I
 *Economics 4300 - Agricultural
 Policy II
 Geography 1000 - Introduction
 to Physical Geography
 **Geography 2015 - Weather and
 Climate
 **Geography 2030 -
 Geomorphology
 **Geography 2060 -
 Environmental Systems
 Geography 2535 - Introduction
 to Planning
 **Geography 3035 - Fluvial
 Geomorphology
 *Geography 3210 - Agricultural
 Geography
 *Geography 3720 (2740) -
 Introduction to Remote
 Sensing
 *Geography 3740 - Geographic
 Information Systems
 **Geography 4012 (3012) -
 Hydrology
 **Geography 4050 - Soils
 **Geography 4770 - Irrigation
 Science
 Management 2060 (2061) -
 Introduction to Information
 Technology
 Management 3020 - Marketing
 **Management 3210 - Consumer
 Behaviour

- *Management 3370 - Strategic Career Management
- *Management 3380 - Technological Change and Organizational Development
- **Management 3610 - Canadian and World Agriculture
- **Management 3620 - Agricultural Production Management
- *Management 3630 - Agricultural Resource Management
- **Management 3862 - Advanced Information Technology
- **Management 4610 - Influence of Government Policy on Agriculture
- **Management 4630 - Cases in Agricultural Management
- **Zoology 2150 - Field Zoology
- **Zoology 3600 - Animal Ecology
- *Zoology 3700 - Animal Physiology I
- **Zoology 3800 - Invertebrate Zoology
- **Zoology 4810 - Animal Parasitology

**Has prerequisite*

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

4. Career and Technology Studies (CTS): Business Focus

Required courses:

- Management 2060 (2061) - Introduction to Information Technology
- Management 2100 - Introductory Accounting

One of: Management 2000 - Introduction to Management
Management 3080 - Managerial Skill Development

Two additional Management, Computer Science or Economics courses

Students will be required to demonstrate keyboard competence equivalent to the completion of a post-secondary typing/word processing course.

5. Career and Technology Studies (CTS): Communication Focus

The CTS: Communication Focus minor supports the Alberta Education CTS Communication strand.

Required courses:

- Five of:** Art 1000 - Introduction to Art
Art 2030 - Visual Foundations 1
Art 2315 - Fundamentals of Drawing
**Art 2316 - Fundamentals of Art Making
**Art 3004 - Photo-Arts 1
**Art 3006 (2710) - Printmaking
**Art 3007 (2720) - Advanced Printmaking
**Art 3014 - Advanced Photo-Arts
Computer Science 1000 - Introduction to Computer Science
*Computer Science 3710 - Computer Graphics
Drama 1000 - Introduction to Dramatic Arts
**Drama 2320 - Voice and Diction I
Drama 2350 - Speech Communication
English 1900 - The World of Words
**English 2800 - Rhetoric
**English 2900 - The English Language
**English 3800 - Creative Writing
**English 4800 - Advanced Creative Writing Workshop
Fine Arts 3850 - Topics in Fine Arts 2
Fine Arts 4850 - Topics in Fine Arts 2
**Management 2000 - Introduction to Management
Management 2060 (2061) - Introduction to Information Technology
Management 3080 (2080) - Managerial Skill Development
Management 3090 - Written Communication and Information Literacy
**Management 3862 - Advanced Information Technology
Music 2500 - Music and Computers
1 6.0 credit hours
2 If the topic is applicable to the minor

**Has prerequisite*

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

6. 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 - Introduction to Social/Cultural Anthropology
 **Anthropology 2100 - Contemporary Canadian Communities
 **Anthropology 2200 - Societies: A Global Comparison
 **Anthropology 2510 - Popular Culture
 **Anthropology 2600 - Anthropology of Gender
 **Anthropology 3200 - Political Anthropology
 **Anthropology 3210 - Kinship and Marriage
 **Anthropology 3310 - Race and Ethnicity
 **Anthropology 3520 - Medical Anthropology
 **Anthropology 3900 - Series on Social and Cultural Organization
 Biology 2050 - Biology and Human Affairs
 **Biology 3003/Nursing 3003 - Epidemiology: The Ecology of Health and Disease
 Chemistry 2100 - Elements of Organic Chemistry I
 **Chemistry 2200 - Elements of Organic Chemistry II
 Chemistry 2250 - Elements of Human Nutrition
 Physical Education 1000 - Wellness and Physical Activity
 Physical Education 2000 - Foundations of Motor Skill Acquisition
 Physical Education 2110 - Biological and Physical Science Dimensions of Physical Activity Involvement
 Physical Education 2120 - Sociological and Psychological Dimensions of Physical Activity Involvement
 Physical Education 2130 - Humanities Dimensions of Physical Activity Involvement
 Physical Education 2520 - Contemporary Health Issues

Physical Education 2600 - Functional Human Anatomy
 Physical Education 2630 - Growth and Development
 Physical Education 2810 - Recreation in the Leisure Age
 **Physical Education 3600 - Physiology of Muscular Activity
 **Physical Education 3810 - Community Recreation
 **Physical Education 4650 - Principles of Athletic Training
 Psychology 1000 - Basic Concepts of Psychology
 **Psychology 2320 - Cognitive Psychology
 **Psychology 2600 - Brain and Behaviour
 **Psychology 2800 - Social Psychology
 **Psychology 3110 (2100) - Child Development
 *Psychology 3120 - Psychology of Aging
 **Psychology 3500 - Abnormal Psychology
 **Psychology 3610 - Human Neuropsychology
 **Psychology 3720 (2300) - Learning
 *Psychology 3730 (3630) - Sex and Human Ethology
 *Psychology 3900 - Community Psychology
 Sociology 1000 - Basic Concepts in Sociology
 **Sociology 2010 - Canadian Society
 **Sociology 2020 - Social Problems
 **Sociology 2410 - Women, Men and Society
 **Sociology 3310 - The Family
 **Sociology 3340 - Medical Sociology
 **Sociology 3370 - Sociology of Aging
 **Sociology 3410 - Community and Urbanization

*Has prerequisite

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

7. Career and Technology Studies (CTS):
Computer Technologies Focus

The CTS: Communications 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 (1600) - Introduction to a Programming Language
*Computer Science 2610 - Introduction to Digital Systems
*Computer Science 2620 (2650) - Advanced Programming Techniques
**Computer Science 2660 - File Processing
*Computer Science 2690 - Systems Programming
*Computer Science 3615 - Computer Architecture
**Computer Science 3620 - Data Structures and Algorithms
**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 - Implementation of High Level Programming Languages
**Computer Science 4650 - Operating Systems
**Computer Science 4660 - Advanced Database Systems
*Management 2000 - Introduction to Information Technology
*Management 3862 - Advanced Information Technology

**Has prerequisite*

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

8. 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 (Biology 1000 prior to 1996/1997) - Cellular Basis of Life
Biology 1020 - Diversity of Life

- **Biology 2000 - Principles of Genetics
Biology 2050 - Biology and Human Affairs
*Biology 2200 - Principles of Ecology
*Botany 2150 - Field Botany
**Botany 3300 - Plant Physiology
**Botany 3400 - Plant Ecology
**Botany 3500 - Plant Anatomy and Morphology
**Botany 3700 - Plant Biotechnology
**Botany 4500 - Plant Systematics and Evolution
Chemistry 1000 - Atoms, Molecules and Chemical Reactions
**Chemistry 2000 - Chemical Equilibrium and Electrochemistry
Chemistry 2100 - Elements of Organic Chemistry I
**Chemistry 2810 - Introduction to Inorganic Chemistry
Computer Science 1000 - Introduction to Computer Science
*Economics 3210 - Natural Resource Economics
*Economics 3220 - Environmental Economics
*Economics 3300 - Agricultural Policy I
Geography 1000 - Introduction to Physical Geography
Geography 2000 - A World Regional Geography
**Geography 2015 - Weather and Climate
**Geography 2030 - Geomorphology
**Geography 2060 - Environmental Systems
Geography 2535 - Introduction to Planning
Geography 2600 - Canada
**Geography 2700 - Geographical Data and Analysis
**Geography 2710 - Map Interpretation
**Geography 3070 (4070) - Natural Hazards
**Geography 3210 - Agricultural Geography
**Geography 3600 - Historical Geography of Canada
**Geography 3720 (2740) - Introduction to Remote Sensing

- **Geography 3740 - Geographic Information Systems
- *Geography 4012 (3012) - Hydrology
- **Geography 4050 - Soils
- **Geography 4770 - Irrigation Science
- **Geology 2060 - Physical Geology
- **Geology 3020 - Hydrogeology
- *Management 2000 - Introduction to Management
- Management 2060 (2061) - Introduction to Information Technology
- Management 3020 - Marketing
- **Management 3210 - Consumer Behaviour
- *Management 3370 - Strategic Career Management
- *Management 3380 - Technological Change and Organizational Development
- *Management 3610 - Canadian and World Agriculture
- *Management 3620 - Agricultural Production Management
- *Management 3630 - Agricultural Resource Management
- **Management 3862 - Advanced Information Technology
- *Management 4610 - Influence of Government Policy on Agriculture
- **Management 4630 - Cases in Agricultural Management
- **Zoology 3600 - Animal Ecology
- **Zoology 3800 - Invertebrate Zoology

*Has prerequisite

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

9. Drama Education

Required courses:

Drama 1000 - Introduction to Dramatic Arts

Two of: Drama 2310 - Acting I

Drama 2320 - Voice and Diction I

Drama 2340 - Movement Studies I

Drama 2510 - Theatre for Young Audiences I

Drama 2710 - Creative Drama and Improvisation

Two Drama electives

10. English Language Arts Education

Required courses:

English 1900 - The World of Words

English 3700 - Genres and Forms Series (Children's Literature)

Two of: English 2100 - Poetry

English 2200 - Fundamentals of Drama

English 2300 - Prose Fiction

English 2800 - Rhetoric

English 2900 - The English Language

English 3800 - Creative Writing

One of: English 2000 - Canadian Literature

English 3001 - Canadian Poetry

English 3002 - Canadian Drama

English 3003 - Canadian Fiction

11. Environmental/Outdoor Education

Required courses:

Five courses from the following three categories to include at least one from each category:

Category I

Biology 2050

Biology 2200

Geography 1000

Geography 2000

Category II

Botany 2150

Botany 3400

Logic 1000

Philosophy 2231

Philosophy 2232

Philosophy 3000

Zoology 2150

Zoology 3600

Category III

Applied Studies 2010

Applied Studies 2980

Applied Studies 3980

Applied Studies 4980

Economics 3210

Geography 2060 (3050)

Geography 2200

Geography 2600

Geography 3710 (2730)

Geography 3230

Nursing 3003/Biology 3003

Physical Activity 2705

Physical Activity 2715

Physical Education 2810
Physical Education 3810
Psychology 3810

Note: *This minor also supports the Career and Technology strands of Agriculture, Energy and Mines and Forestry.*

12. Mathematics Education

Required courses:

Mathematics 1410 (1450) -
Elementary Linear Algebra
Mathematics 2000 (2450) -
Mathematical Concepts

Three courses from Algebra,
Analysis, Calculus, Com-
puter Science, Geometry or
Statistics

13. Modern Languages Education (French or German)

French

Required courses:

French 2400 - Phonetics and
Diction
Linguistics 2300 - Introduction
to Linguistics

Three additional French
courses

Recommended courses:

French 2250 - French
Immersion
French 3200 - Culture and
Civilization II (French-
Canadian)
French 3600 - Literary Genres
(Song)
French 3600 - Literary Genres
(Children's Literature)

German

Required courses:

Linguistics 2300 - Introduction
to Linguistics

Four German courses

Recommended courses:

German 2250 - German
Immersion
History 3152 - Modern
Germany

14. Music Education

Required courses:

Music 1021 - Music Foun-
dations*
Music 2111 - Music Theory I
Music 2211 - Music Theory II

Music 2421 - History and
Literature of Music II

One of: Music 2321 - History and
Literature of Music I

Music 3311 (2311) - Music
Theory II

Music Studio course

Music Ensemble Credit

**Students with transfer credit for Music 1000
will have met this requirement.*

15. Native Education

Required courses:

Native American Studies 1000 -
Introduction to Native
American Studies

Native American Studies 2000 -
Native American Philosophy

Two additional courses in
Native American Studies or
Native Languages

One of: Blackfoot 2210 - Structure of
the Blackfoot Language

Cree 2210 - Structure of the
Cree Language

16. Physical Education

Required courses:

Physical Education 1000 -
Wellness and Physical
Activity

Physical Education 3650 -
Biomechanics

Physical Education 4620 -
Leadership and Management
of Physical Education, Sport
and Recreation

One of: Physical Education 2110 -
Biological and Physical
Science Dimensions of
Physical Activity Involvement

Physical Education 2600 -
Functional Human Anatomy

One additional Physical
Education Theory course or
two Physical Activity courses

17. Religious Studies Education

Required courses:

Religious Studies 1000

Four Religious Studies courses
or alternates approved by
Student Program Services in
the Faculty of Education

COMBINED DEGREES

18. Science Education

Required courses:

One course from each of two areas:

Biological Sciences
Chemistry
Physical Geography
Physics

Three courses above the 1000 level from any of the following disciplines OR as advised by Student Program Services in the Faculty of Education:

Archaeology courses designated as Science
Astronomy
Biology
Chemistry
Geology
Physical Geography
Physics

19. Social Studies Education

Required courses:

One Canadian Geography course

One Canadian History course

Three courses from any of the following disciplines:

Anthropology
Economics
Geography
History
Political Science
Sociology

Note: At least three of the five courses for the minor must be above the 1000 level.

Students are urged to seek advice from Student Program Services in the Faculty of Education regarding appropriate course choice and an appropriate Education course.

f. Academic Regulations

In the Combined Degrees program, students divide their time between two different Faculties which measure different standards of academic performance. Students should read the academic regulations for each Faculty 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 Arts and Science regulations (**Part 5**) and the Education regulations (**Part 6**).

g. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge, including 15 Education courses and 15 Arts and Science courses.

Note: *Students are reminded that, for the B.A. and B.Sc., at least one-half of the required courses in the major must be completed at the University of Lethbridge.*

h. Special Study Arrangements

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.

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 (see Student Program Services in the Faculty of Education for policies and procedures governing Study Tours).

Applied Studies

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2501, 2510 and 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.

Waiver of Practica

Students who have successful teaching experience may have waived any one or all of Education 2500, 3500 or 3600, but are required to complete a minimum of one Field Experience course. Requests must be submitted to the Assistant Dean, Student Program Services, Faculty of Education.

i. Sample Program

Please refer to Page 197.

Sample B.A./B.Ed. or B.Sc./B.Ed. Combined Degree - 50 Courses

Pre-B.A./B.Ed. or Pre-B.Sc./B.Ed. - Years 1 and 2

20	<p>A minimum of 20 courses to include:</p> <ul style="list-style-type: none"> • A minimum of eight courses in a major for disciplinary majors or a minimum of eleven courses within a multidisciplinary or General Major (five courses in a school subject discipline) with a minimum GPA of 2.50 • Most of the General Liberal Education Requirement • Education 2500 - Orientation to Teaching (includes a Practicum), or equivalent and a favourable recommendation • A minimum GPA of 2.50 on all courses, including transfer credit • Completion of the Writing Proficiency Requirement
----	---

Admission to the Combined Degree/Faculty of Education

Combined B.A./B.Ed. or B.Sc./B.Ed. - Year 3

Fall Semester		Spring Semester	
4	<p>Professional Semester I (PSI):</p> <ul style="list-style-type: none"> Educational Psychology General Curriculum and Instruction Language in Education Seminar in Teaching Evaluation of Student Learning Communications Technology and Education 	5	Arts and Science and/or Education courses
1	Practicum - Equivalent to 125 hours in a school		

These two semesters may be interchanged for some undergraduate students who have difficulty meeting their Arts and Science obligations or those who have more than the minimum number of Arts and Science courses.

Combined B.A./B.Ed. or B.Sc./B.Ed. - Year 4

Fall Semester		Spring Semester	
5	Arts and Science and/or Education courses	3 1/2	<p>Professional Semester II (PS II):</p> <ul style="list-style-type: none"> Psychology and Education of Atypical Children in Regular Classrooms Principles of Curriculum and Instruction for Majors Evaluation of Student Learning Social Context of Schooling
		1 1/2	Practicum - Equivalent to 150 hours in a school

Combined B.A./B.Ed. or B.Sc./B.Ed. - Year 5

Fall Semester		Spring Semester	
3	<p>Professional Semester III (PS III):</p> <p>This is the internship semester for secondary subject-based majors and special focus students</p>	5	<ul style="list-style-type: none"> One Education Foundation Three Education Electives One Arts and Science course
2	<p>Internship: September-December, or as arranged Students teach approximately half time</p> <p>Academic components designed to complement and enhance the internship</p>		

Elementary students will reverse these two semesters and complete PS III in the Spring.

COMBINED DEGREES

4. BACHELOR OF FINE ARTS (ART)/BACHELOR OF EDUCATION

a. Admission

Admission to the School of Fine Arts occurs at the second-year level of University studies. Students begin the program classified as Pre-B.F.A. (Art)/B.Ed. in the Faculty of Arts and Science. Year One is spent completing the requirements for admission to the School of Fine Arts. After completion of from 20 to 30 courses, including Education 2500 (or equivalent), students may apply to the Faculty of Education. Students are not officially in the Combined Degrees program until they have been admitted to BOTH the School of Fine Arts and the Faculty of Education.

Note: *The Faculty of Education does not offer a B.Ed. degree alone, unless after an approved degree; first degree students must be admitted to a Combined Degrees program in order to receive a B.Ed.*

1. School of Fine Arts Admission Requirements for the 50-Course B.F.A. (Art)/B.Ed.

- a. Completion of 10 courses (30.0 credit hours), including the following: Art 1000, 2030 and two Art electives (6.0 credit hours).
- b. A minimum cumulative GPA of 2.00.
- c. A minimum GPA of 2.50 in Art courses.

2. Faculty of Education Admission Requirements for the 50-Course B.F.A. (Art)/B.Ed.

Based on the Faculty's quota system, normally a total of 180 students in all programs will be admitted to the Faculty each June to begin their studies in the Fall semester. The deadline for application to the Faculty of Education is June 1.

There are enrolment limits on the number of students admitted to the Faculty of Education. Students should note that completion of pre-Education requirements does not guarantee admission to the Faculty. Admission decisions are based primarily on evaluation of performance in Education 2500 (or equivalent) and grade point average calculated on all courses including all transferable courses.

Note: *While application for admission after 20 courses is the preferred academic plan, those students who complete 30 or more courses may also apply for admission to this program.*

Students must meet the following minimum qualifications for admission to the Faculty of Education:

- a. Completion of a minimum of 19 Arts and Science courses (57.0 credit hours), including admission requirement for the School of Fine Arts listed above.

Note: *Students who have not completed a major portion of the General Liberal Education Requirement prior to admission to the program may not be able to complete the Combined Degrees requirements in the specified number of courses.*

- b. A minimum grade point average of 2.50 on all pre-Education courses, including all transferable courses.
- c. A minimum grade point average of 2.50 on all graded courses comprising the major, including all transferable courses.
- d. Credit in Education 2500 (Orientation to Teaching), or equivalent including a favourable recommendation from the instructor.

Students with a GPA of 2.50 or higher, calculated on all courses including those accepted for transfer credit, may register directly in Education 2500. If available spots are not so filled, additional students will be considered on the basis of the proximity of their GPA to 2.50 and the number of Arts and Science and/or Fine Arts courses remaining in their program (those with fewer remaining courses will have preference). Such students will be added during the Add/Drop period upon application to Student Program Services in the Faculty of Education.

- e. Demonstrated proficiency in written and oral English (or French). A student may meet the Writing Proficiency Requirement in one of the following ways:

1. obtaining a grade of 75 percent or higher on the English 30 Alberta Diploma exam;
2. obtaining a final grade of 80 percent or better in English 30 or its equivalent from any province;
3. passing the Alberta Universities' Writing Competency Test (AUWCT);
4. obtaining a pass in the 'Writing for University' course;
5. obtaining a 'B' grade or better in a university English course;
6. completion of a recognized degree from an English language university; or
7. obtaining a satisfactory grade in Management 3090.

Students are encouraged to consult early with Student Program Services in the Faculty of Education regarding procedures for meeting the Writing Proficiency Requirement, especially the French language proficiency.

- f. Completion of an acceptable portfolio and interview.

b. School of Fine Arts Requirements for the 50-Course (150.0 credit hours) B.F.A. (Art)/B.Ed.

1. Completion of 22 Art courses (66.0 credit hours) with a grade point average of at least 2.00.
2. Completion of the General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).
3. Completion of at least eight Art courses (24.0 credit hours) at the 3000/4000 level.
4. A maximum of five Independent Studies.
5. Not more than eight courses at the 0100-1990 level. For 0100-1990 courses that have a 0100/1000-level background or prerequisite, only the first course in the series counts toward this limit.

Required courses:

Art 1000 - Introduction to Art
Art 2230 - Western Art History 15th Century to Present
Art 3010 - Drawing
Art 3215 - 20th Century Art History to 1945
Art 3220 - Art: 1945 to 1970
Art 3240 - Canadian Art History
Art 3270 - Art Since 1970

One of: Art 2030* - Visual Foundations
or
Art 2315 - Fundamentals of Drawing, and
Art 2316 - Fundamentals of Art Making and
An approved portfolio

Required Studio courses (choose List A, B or C):

List A: Art 3002* - Painting
Art 3008* - Sculpture
Art 3012 - Advanced Painting
Art 3040* - Two-Dimensional Studio
Art 4048* - Senior Studio

List B: Art 3004* - Photo-Arts
Art 3008* - Sculpture
Art 3014 - Advanced Photo-Arts
Art 3040* - Two-Dimensional Studio
Art 4048* - Senior Studio

List C: Art 3008* - Sculpture
Art 3002* - Painting
Art 3018 - Advanced Sculpture or
Art 3019 - Advanced Sculpture (Context and Environment)
Art 3080* - Three-Dimensional Studio
Art 4048* - Senior Studio

Electives:

Four Art electives (12.0 credit hours)

*6.0 credit hours

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

*The Education Foundations Requirement may be met in the following ways:

a. One course from the following list:

Education 4310
Education 4311
Education 4320
Education 4321
Education 4341
Education 4360
Education 4361
Education 4362
Education 4380
Education 4381
Education 4391

b. One appropriate Independent Study.

3. Maintenance of a grade point average 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 General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).

d. Academic Regulations

In the Combined Degrees program, students divide their time between two different Faculties and/or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty/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 Arts and Science regulations (**Part 5**), Education regulations (**Part 6**) and Fine Arts regulations (**Part 7**).

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 transcript upon completion of a minor. Please refer to **Section 3.e (pp. 189-196)** for information on Education Minor Requirements.

f. Residence Requirement

Students must complete a minimum of 30 courses (90.0 credit hours) at the University of Lethbridge, including a minimum of seven Art courses (21.0 credit hours) and 15 Education courses. Students should note that the residence requirement for the B.F.A. (Art)/B.Ed. is subject to the School 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.

g. Special Study Arrangements

Independent Study

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.F.A. (Art)/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 (see Student Program Services for policies and procedures governing Study Tours).

Applied Studies

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2501, 2510 and 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.

Waiver of Practica

Students who have successful teaching experience may have waived any one or all of Education 2500, 3500 or 3600, but are required to complete a minimum of one Field Experience course. Requests must be submitted to the Assistant Dean, Student Program Services, Faculty of Education.

h. Sample Program

Please refer to Page 201.

Sample B.F.A. (Art)/B.Ed. Combined Degree - 50 Courses

Pre-B.F.A. (Art)/B.Ed. - Year 1

Fall Semester	
5	Art 1000 Art 2030 (6.0 credit hours) Liberal Education course (Social Science) Liberal Education course (Science)

Spring Semester	
5	Art 2230 Art 3002 or 3004 or 3008 (6.0 credit hours) Liberal Education course (Social Science) Liberal Education course (Science)

Admission to the School of Fine Arts

Year 2

Fall Semester	
5	Art 3010 Art 3012 or 3014 or 3018 or 3019 Art 3215 or 3220 Liberal Education course (Social Science) Liberal Education course (Science)

Spring Semester	
5	Art 3002 or 3008 (6.0 credit hours) Art 3240 Education 2500 Liberal Education course (Social Science)

Admission to the Faculty of Education

Year 3

Fall Semester	
4	Professional Semester I (PS I): Educational Psychology General Curriculum and Instruction Language in Education Seminar in Teaching Evaluation of Student Learning Communications Technology and Education
1	

Spring Semester	
5	Art 3270 Art 4048 (6.0 credit hours) Art elective Liberal Education course (Science)

These two semesters may be interchanged for some undergraduate students who have difficulty meeting their Arts and Science obligations or those who have more than the minimum number of Arts and Science courses.

Year 4

Fall Semester	
5	Art 3040 or 3080 (6.0 credit hours) Art 3215 or 3220 Art electives (6.0 credit hours)

Spring Semester	
3 1/2	Professional Semester II (PS II): Psychology and Education of Atypical Children in Regular Classrooms Principles of Curriculum and Instruction for Majors Evaluation of Student Learning Social Context of Schooling
1 1/2	

Year 5

Fall Semester		
1	Professional Semester III (PS III): Students teach approximately half time	
1		• Advanced Methods (Art)
3		• Reflective Practice • Field Experience (Art)

Spring Semester	
5	Art elective Education Foundation course Education elective Education elective Education elective

COMBINED DEGREES

5. BACHELOR OF FINE ARTS (DRAMATIC ARTS)/BACHELOR OF EDUCATION

a. Admission

Admission to the School of Fine Arts occurs at the second-year level of University studies. Students begin the program classified as Pre-B.F.A. (Dramatic Arts)/B.Ed. in the Faculty of Arts and Science. Year One is spent completing the requirements for admission to the School of Fine Arts. After completion of from 20 to 30 courses, including Education 2500 (or equivalent), students may apply to the Faculty of Education. Students are not officially in the Combined Degrees program until they have been admitted to BOTH the School of Fine Arts and the Faculty of Education.

Note: The Faculty of Education does not offer a B.Ed. degree alone, unless after an approved degree; first degree students must be admitted to a Combined Degrees program in order to receive a B.Ed.

1. School of Fine Arts Admission Requirements for the 50-Course B.F.A. (Dramatic Arts)/B.Ed.
 - a. Completion of 10 courses including the following:
Drama 1000 - Introduction to Dramatic Arts
Three other courses in Dramatic Arts.
 - b. A minimum cumulative grade point average of 2.00.
 - c. A grade point average of 2.50 in Drama courses.
2. Faculty of Education Admission Requirements for the 50-Course B.F.A. (Dramatic Arts)/B.Ed.

Based on the Faculty's quota system, normally a total of 180 students in all programs will be admitted to the Faculty each June to begin their studies in the Fall semester. The deadline for application to the Faculty of Education is June 1.

There are enrolment limits on the number of students admitted to the Faculty of Education. Students should note that completion of pre-Education requirements does not guarantee admission to the program. Admission decisions are based primarily on evaluation of performance in Education 2500 and grade point average calculated on all courses including all transferable courses.

Note: While application for admission after 20 courses is the preferred academic plan, those students who complete up to 30 courses may also apply for admission to this program.

Students must meet the following minimum qualifications for admission to the Faculty of Education:

- a. Completion of a minimum of 19 Arts and Science courses, including courses required for admission to the School of Fine Arts listed above.

Note: Students who have not completed a major portion of the General Liberal Education Requirement prior to admission to the program may not be able to complete the Combined Degrees requirements in the specified number of courses.

- b. A minimum grade point average of 2.50 on all pre-Education courses including all transferable courses.
- c. A minimum grade point average of 2.50 on all graded courses comprising the major including all transferable courses.
- d. Credit in Education 2500 (Orientation to Teaching), or equivalent, including a favourable recommendation from the instructor.

Students with a GPA of 2.50 or higher, calculated on all courses including those accepted for transfer credit, may register directly in Education 2500. If available spots are not so filled, additional students will be considered on the basis of the proximity of their GPA to 2.50 and the number of Arts and Science courses remaining in their program (those with fewer remaining courses will have preference). Such students will be added during the Add/Drop period upon application to Student Program Services in the Faculty of Education.

- e. Demonstrated proficiency in written and oral English (or French). A student may meet the Writing Proficiency Requirement in one of the following ways:
 1. obtaining a grade of 75 percent or higher on the English 30 Alberta Diploma exam;
 2. obtaining a final grade of 80 percent or better in English 30 or its equivalent from any province;
 3. passing the Alberta Universities' Writing Competency Test (AUWCT);
 4. obtaining a pass in the 'Writing for University' course;
 5. obtaining a 'B' grade or better in a university English course;
 6. completion of a recognized degree from an English language university; or
 7. obtaining a satisfactory grade in Management 3090.

Students are encouraged to consult early with Student Program Services in the Faculty of Education regarding procedures for meeting the Writing Proficiency Requirement, especially the French language proficiency.

- f. Completion of an acceptable portfolio, performance audition and interview.

b. School of Fine Arts Requirements for the 50-Course B.F.A. (Dramatic Arts)/B.Ed.

1. Completion of 21 Drama courses with a grade point average of at least 2.50.
2. Completion of the General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).
3. Completion of at least ten Drama courses at the 3000/4000 level.
4. Not more than eight courses at the 0100-1990 level. For 0100-1990 courses which have a 0100/1000-level background or prerequisite, only the first course in the series counts toward this limit.

Required courses:

- Drama 1000 - Introduction to Dramatic Arts
- Drama 2120 - History and Development of Western Theatre I
- Drama 2130 - History and Development of Western Theatre II
- Drama 2600 - Portfolio in Dramatic Arts I
- Drama 2811 - Stagecraft I
- Drama 2812 - Stagecraft II
- Drama 3600 - Portfolio in Dramatic Arts II

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

**The Education Foundations Requirement may be met in the following ways:*

- a. One course from the following list:
 - Education 4310
 - Education 4311
 - Education 4320
 - Education 4321
 - Education 4341
 - Education 4360
 - Education 4361
 - Education 4362
 - Education 4380
 - Education 4381
 - Education 4391
- b. One appropriate Independent Study.

3. Maintain a grade point average 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 General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).

d. Academic Regulations

In the Combined Degrees program, students divide their time between different Faculties and/or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty/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 Arts and Science regulations (**Part 5**), Education regulations (**Part 6**) and Fine Arts regulations (**Part 7**).

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 transcripts upon completion of a minor. Please refer to **Section 3.e. (pp. 189-196)** for information on Education Minor Requirements.

f. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge, including a minimum of seven Drama courses and 15 Education courses. Students should note that the residence requirement for the B.F.A. (Dramatic Arts)/B.Ed. is subject to the School 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.

g. Special Study Arrangements

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.

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 (see Student Program Services for policies and procedures governing Study Tours).

Applied Studies

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2501, 2510 and 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.

Waiver of Practica

Students who have successful teaching experience may have waived any one or all of Education 2500, 3500 or 3600, but are required to complete a minimum of one Field Experience course. Requests must be submitted to the Assistant Dean, Student Program Services, Faculty of Education.

h. Sample Program

Please refer to Page 205.

Sample B.F.A. (Dramatic Arts)/B.Ed. Combined Degree - 50 Courses

Pre-B.F.A. (Dramatic Arts)/B.Ed. - Year 1

Fall Semester	
5	Drama 1000 Drama 2811 Liberal Education course (Social Science) Liberal Education course (Science) Elective

Spring Semester	
5	Drama 2812 Drama elective Liberal Education course (Social Science) Liberal Education course (Social Science) Liberal Education course (Science)

Admission to the School of Fine Arts

Year 2

Fall Semester	
5	Drama 2120 Drama 2600 Drama elective Liberal Education course (Social Science) Liberal Education course (Science)

Spring Semester	
5	Drama 2130 Drama 3000/4000 level Drama elective Education 2500 Liberal Education course (Science)

Admission to the Faculty of Education

Year 3

Fall Semester	
4 1	Professional Semester I (PSI): Educational Psychology General Curriculum and Instruction Language in Education Seminar in Teaching Evaluation of Student Learning Communications Technology and Education Practicum - Equivalent to 125 hours in a school

Spring Semester	
5	Drama 3000/4000 level elective Drama 3000/4000 level elective Drama 3000/4000 level elective Drama 3000/4000 level elective Drama elective

These two semesters may be interchanged for some undergraduate students who have difficulty meeting their Arts and Science obligations or those who have more than the minimum number of Arts and Science courses.

Year 4

Fall Semester	
5	Drama 3000/4000 level elective Drama 3000/4000 level elective Drama 3000/4000 level elective Drama 3000/4000 level elective Drama elective

Spring Semester	
3 1/2 1 1/2	Professional Semester II (PS II): Psychology and Education of Atypical Children in Regular Classrooms Principles of Curriculum and Instruction for Majors Evaluation of Student Learning Social Context of Schooling Practicum - Equivalent to 150 hours in a school

Year 5

Fall Semester	
1 1 3	Professional Semester III (PS III): Students teach approximately half time • Advanced Methods (Drama) • Reflective Practice • Field Experience (Drama)

Spring Semester	
5	Drama 3000/4000 level Education Foundation course Education elective Education elective Education elective

COMBINED DEGREES

6. BACHELOR OF MUSIC/BACHELOR OF EDUCATION

a. Admission

Admission to the School of Fine Arts occurs at the second-year level of university studies. Students begin the program classified as pre-B.Mus in the Faculty of Arts and Science. Year One is spent completing the requirements for admission to the School of Fine Arts. After completion of from 20 to 30 courses, including Education 2500 (or equivalent), students may apply to the Faculty of Education. Students are not officially in the Combined Degrees program until they have been admitted to BOTH the School of Fine Arts and the Faculty of Education.

Note: *The Faculty of Education does not offer a B.Ed. degree alone, unless after an approved degree; first degree students must be admitted to a Combined Degrees program in order to receive a B.Ed.*

1. School of Fine Arts Admission Requirements for the 52-Course B.Mus./B.Ed.

- a. Completion of 10 courses including the following:
 - Two Theory courses (Music 2111 and 2211 or their equivalent)
 - Two History and Literature of Music courses
 - Two Studio courses (Music 2148 and 2248)
- b. A minimum cumulative grade point average of 2.00.
- c. A grade point average of 2.50 in Music courses.
- d. Piano proficiency (assessment based on the student's audition).

2. Faculty of Education Admission Requirements for the 52-Course B.Mus./B.Ed.

Based on the Faculty's quota system, normally a total of 180 students in all programs will be admitted to the Faculty each June to begin their studies in the Fall semester. The deadline for application to the Faculty of Education is June 1.

There are enrolment limits on the number of students admitted to the Faculty of Education. Students should note that completion of pre-Education requirements does not guarantee admission to the program. Admission decisions are based primarily on evaluation of performance in Education 2500 (or equivalent) and grade point average calculated on all courses including all transferable courses.

Note: *While application for admission after 20 courses is the preferred academic plan, those students who complete up to 30 courses may also apply for admission to this program.*

Students must meet the following minimum qualifications for admission to the Faculty of Education:

- a. Completion of a minimum of 19 Arts and Science courses including courses, required for admission to the School of Fine Arts listed above.
- b. A minimum grade point average of 2.50 on all pre-Education courses, including all transferable courses.
- c. A minimum grade point average of 2.50 on courses comprising the major, including all transferable courses.
- d. Credit in Education 2500 (Orientation to Teaching) including a favourable recommendation from the instructor.

Students with a GPA of 2.50 or higher, calculated on all courses including those accepted for transfer credit, may register directly in Education 2500, or equivalent. If available spots are not so filled, additional students will be considered on the basis of the proximity of their GPA to 2.50 and the number of Arts and Science courses remaining in their program (those with fewer remaining courses will have preference). Such students will be added during the Add/Drop period upon application to Student Program Services in the Faculty of Education.

- e. Demonstrated proficiency in written and oral English (or French). A student may meet the Writing Proficiency Requirement in one of the following ways:

1. obtaining a grade of 75 percent or higher on the English 30 Alberta Diploma exam;
2. obtaining a final grade of 80 percent or better in English 30 or its equivalent from any province;
3. passing the Alberta Universities' Writing Competency Test (AUWCT);
4. obtaining a pass in the 'Writing for University' course;
5. obtaining a 'B' grade or better in a university English course;
6. completion of a recognized degree from an English language university; or
7. obtaining a satisfactory grade in Management 3090.

Students are encouraged to consult early with Student Program Services in the Faculty of Education regarding procedures for meeting the Writing Proficiency Requirement, especially the French language proficiency.

- f. Completion of an acceptable audition and/or interview.

b. School of Fine Arts Requirements for the 52-Course B.Mus./B.Ed.

1. Completion of 24 Music courses with a grade point average of at least 2.00.
2. Completion of the General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).
3. Completion of at least 12 Music courses at the 3000/4000 level.
4. Not more than five Independent Studies or an equivalent approved by the Assistant Dean, Music.
5. Not more than eight courses at the 0100-1990 level. For 0100-1990 courses which have a 0100/1000-level background or prerequisite, only the first course in the series counts toward this limit.

Required courses:

Applied

- Music 2148 - Music Studio I - (Instrument)
- Music 2248 - Music Studio II - (Instrument)
- Music 3348 (2348) - Music Studio III - (Instrument)
- Music 3448 (2448) - Music Studio IV - (Instrument)
- Music 3548 - Music Studio V - (Instrument)
- Music 3648 - Music Studio VI - (Instrument)

History

- Music 1021 - Music Foundations*
- Music 2321 - History and Literature of Music I: Baroque and Classical Periods
- Music 2421 - History and Literature of Music II: The Romantic Period
- Music 3621 - History and Literature of Music IV: The 20th Century
- Music 3721 (2600) - World Music

**Students with transfer credit for Music 1000 will have met the requirement for Music 1021.*

Theory

- Music 2111 - Music Theory I
- Music 2211 - Music Theory II
- Music 3311 (2311) - Music Theory III
- Music 3411 (2411) - Music Theory IV
- Music 4611 (4820) - Form and Analysis
- Music 4711 - Orchestration

Conducting

- Music 3500 - Conducting I

One of: Music 3510 - Choral Conducting

- Music 3530 - Instrumental Conducting

Ensembles

- Six Ensemble Activity courses (1.5 credit courses 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 Vox Musica
Studio pianists	A minimum of two semesters of: Accompanying, and one of: University Singers Vox Musica Wind Orchestra
Studio string	Any of: Accompanying University Singers Vox Musica Wind Orchestra (or through Independent Study by permission of the Division of Music)

No more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given semester.

Electives

- Two of:** Music 2500 - Computers and Music
 Music 2850 - Topics in Music
 Music 3000 - Seminar in Music
 Music 3510 - Choral Conducting
 Music 3511 - Modal Counterpoint
 Music 3521 - History and Literature of Music IV: Antiquity, Medieval and Renaissance Periods
 Music 3530 - Instrumental Conducting
 Music 3611 - Theory and Composition in the 20th Century
 Music 3850 - Topics in Music
 Music 4000 - Seminar in Music
 Music 4060 - Advanced Study in Music
 Music 4721 - Canadian Music
 Music 4748 (4731-47) - Studio VII - (Instrument)
 Music 4848 (4831-47) - Studio VIII - (Instrument)
 Music 4850 - Topics in Music
 Music 4811 - Composition I
 Music 4812 - Composition II
 Up to two 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**

COMBINED DEGREES

Two Education (Music) electives
One Education (Fine Arts/Music) elective
One Education elective

**Professional Semester III (Music Focus) is worth 12.0 credit hours.*

***The Education Foundations Requirement may be met in the following ways:*

- a. One course from the following list:

Education 4310
Education 4311
Education 4320
Education 4321
Education 4341
Education 4360
Education 4361
Education 4362
Education 4380
Education 4381
Education 4391

- b. One appropriate Independent Study.

3. Maintain a grade point average 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 General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).

d. Academic Regulations

In the Combined Degrees program, students divide their time between different Faculties and/or Schools which measure different standards of academic performance. Students should read the academic regulations for each Faculty/School in which a portion of the combined degree will be taken. For the B.Mus./B.Ed., students should be aware of the Arts and Science regulations (**Part 5**), Education regulations (**Part 6**) and Fine Arts regulations (**Part 7**).

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 transcripts upon completion of a minor. Please refer to **Section 3e. (pp. 189-196)** for information on Education Minor Requirements.

f. Residence Requirement

Students must complete a minimum of 32 courses at the University of Lethbridge, including a minimum of nine Music courses and 15 Education courses. Students should note that the residence requirement for the B.Mus./B.Ed. is subject to the School 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.

g. Special Study Arrangements

Independent Study

A maximum of two Independent Studies may be completed in the B.Ed. portion of the B.Mus./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 (see Student Program Services for policies and procedures governing Study Tours).

Applied Studies

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2501, 2510 and 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.

Waiver of Practica

Students who have successful teaching experience may have waived any one or all of Education 2500, 3500 or 3600, but are required to complete a minimum of one Field Experience course. Requests must be submitted to the Assistant Dean, Student Program Services, Faculty of Education.

h. Sample Program

Please refer to Page 209.

Sample B.Mus./B.Ed. Combined Degree - 52 Courses

Pre-B.Mus./B.Ed. - Year 1

Fall Semester	
5 1/2	Music 1021 Music 2111 Music 2148 (Music Studio I) Music Ensemble Activity Liberal Education course (Social Science) Liberal Education course (Science)

Spring Semester	
5 1/2	Music 2211 Music 2248 (Music Studio II) Music 2421 Music Ensemble Activity Liberal Education course (Social Science) Liberal Education course (Science)

Year 2

Fall Semester	
5 1/2	Music 2321 Music 3311 (2311) Music 3348 (Music Studio III) Music Ensemble Activity Liberal Education course (Social Science) Liberal Education course (Science)

Spring Semester	
4 1/2	Education 2500 Music 3411 (2411) Music 3448 (Music Studio IV) Music 3500 Music Ensemble Activity

Admission to the Faculty of Education and the School of Fine Arts

Year 3

Fall Semester	
4 1/2	Music 3548 (Music Studio V) Music 3721 Music 4711 Music Ensemble Activity Music elective

Spring Semester	
7 1/2	Music 3621 Music 3648 (Music Studio VI) Music 4611 Music Ensemble Activity Liberal Education course (Social Science) Liberal Education course (Science)

Summer Session:
 Music 3510 or 3530*
 Education elective (Music)

These two semesters may be interchanged for some undergraduate students who have difficulty meeting their Arts and Science obligations or those who have more than the minimum number of Arts and Science courses.

Year 4

Fall Semester	
4	Professional Semester I (PSI): Educational Psychology General Curriculum and Instruction Language in Education Seminar in Teaching Evaluation of Student Learning Communications Technology and Education
1	Practicum - Equivalent to 125 hours in a school

Spring Semester	
3 1/2	Professional Semester II (PS II): Psychology and Education of Atypical Children in Regular Classrooms Principles of Curriculum and Instruction for Majors Evaluation of Student Learning Social Context of Schooling
1 1/2	Practicum - Equivalent to 150 hours in a school

Year 5

Fall Semester	
2	Professional Semester III (PS III): Internship for secondary subject-based majors and special focus students
2	<ul style="list-style-type: none"> • Internship: Sept.-Dec. or Jan.-Apr., or as arranged. Students teach approximately half time • Two course equivalents designed to complement and enhance the internship

Spring Semester	
4	Education Foundation course Education elective (Fine Arts/Music) Education elective (Music) Education elective

Elementary students will reverse these two semesters and complete PS III in the Spring.

COMBINED DEGREES

*Students who are unable to attend Summer Session should contact the Academic Advisor in the School of Fine Arts (329-2691) regarding an alternate route for meeting this course requirement.

7. BACHELOR OF MANAGEMENT/BACHELOR OF EDUCATION

a. Admission

Students begin this program in the Faculty of Arts and Science where they must meet the admission requirements for the Faculty of Management as well as the admission requirements for the Faculty of Education. Students may be admitted to the pre-B.Mgt./B.Ed. Combined Degrees program when they are admitted to the University. After completion of at least 20 courses, including 14 Arts and Science courses, five Management courses and Education 2500 (or equivalent), students may apply to the Faculty of Education and to the Faculty of Management. Students are not officially in the Combined Degrees program until they have been admitted to BOTH the Faculty of Management and the Faculty of Education. If a student is admitted to the Combined Degrees program and subsequently chooses to withdraw from Education or Management, the student must make formal application to the Faculty or School in which he or she intends to pursue a degree.

Note: *The Faculty of Education does not offer a B.Ed. degree alone, unless after an approved degree; first degree students must be admitted to a Combined Degrees program in order to receive a B.Ed.*

1. Faculty of Management Admission Requirements for the 50-Course B.Mgt./B.Ed.

- a. Completion of 20 courses which must include:
 - Economics 1001 - Introduction to Economics
 - Economics 2000 - Principles of Macroeconomics
 - Management 2000 - Introduction to Management
 - Management 2060 - Introduction to Information Technology
 - Management 2100 - Introductory Accounting
 - Management 2400 - Management Accounting
 - Management 2700 - Research Methodology
 - Statistics 1770 - Introduction to Probability and Statistics
- b. A minimum cumulative grade point average of 2.00. The grade point average is calculated on the basis of all graded courses, including the admission-level compulsory Management courses.
- c. Demonstrated proficiency in written and oral English (or French). A student may meet the Writing Proficiency Requirement in one of the following ways:
 1. obtaining a grade of 75 percent or higher on the English 30 Alberta Diploma exam;
 2. obtaining a final grade of 80 percent or better in English 30 or its equivalent from any province;

3. passing the Alberta Universities' Writing Competency Test (AUWCT);
4. obtaining a pass in the 'Writing for University' course;
5. obtaining a 'B' grade or better in a university English course;
6. completion of a recognized degree from an English language university; or
7. obtaining a satisfactory grade in Management 3090.

Students are encouraged to consult early with Student Program Services in the Faculty of Education regarding procedures for meeting the Writing Proficiency Requirement, especially the French language proficiency.

- d. A minimum grade of C- must be obtained in all courses required for admission to the program, excluding Arts and Science and non-Management electives.
- e. A personal interview may be required.
- f. Students seeking the B.Mgt./B.Ed. degree may take a maximum of five 3000/4000-level Management courses prior to being formally admitted to the Combined Degrees B.Mgt./B.Ed. program.

Note: *Students should be aware that these are the admission requirements for the General Major in Management and that additional courses may be required for a specific major. Students who elect to complete a specific Management major in the combined B.Mgt./B.Ed. program may be required to extend their programs beyond 50 courses.*

2. Faculty of Education Admission Requirements for the 50-Course B.Mgt./B.Ed.

Based on the Faculty's quota system, normally a total of 180 students in all programs will be admitted to the Faculty each June to begin their studies in the Fall semester. The deadline for application to the Faculty of Education is June 1.

There are enrolment limits on the number of students admitted to the Faculty of Education. Students should note that completion of pre-Education requirements does not guarantee admission to the program. Admission decisions are based primarily on evaluation of performance in Education 2500 (or equivalent) calculated on all courses, including all transferable courses.

Students must meet the following minimum qualifications for admission to the Faculty of Education:

- a. Completion of a minimum of 14 Arts and Science courses and five Management courses as specified by the Faculty of Management admission requirements listed above.

Note: *Students who have not completed a major portion of the General Liberal Education Requirement prior to admission to the Combined Degrees program may not be able to complete degree requirements in 50 courses.*

- b. A minimum grade point average of 2.50 on all pre-Education courses, including all transferable courses.
- c. A minimum grade point average of 2.50 on courses comprising the major, including all transferable courses.
- d. Completion of a keyboard proficiency requirement.
- e. Credit in Education 2500, or equivalent, (Orientation to Teaching) including a favourable recommendation from the instructor.

Students with a GPA of 2.50 or higher, calculated on all courses including those accepted for transfer credit, may register directly in Education 2500. If available spots are not so filled, additional students will be considered on the basis of the proximity of their GPA to 2.50 and the number of Arts and Science and/or Management courses remaining in their program (those with fewer remaining courses will have preference). Such students will be added during the Add/Drop period upon application to Student Program Services in the Faculty of Education.

b. Faculty of Management Requirements for the 50-Course B.Mgt./B.Ed.

1. A minimum GPA of 2.00 in Management courses and a cumulative GPA of 2.00.
2. Completion of the General Major in Management including seven core courses and four Management electives at the 3000/4000 level.

Required courses:

Management 3010 - Management Law
 Management 3020 - Marketing
 Management 3030/Political Sciences 3410 - Organizational Behaviour, Theory and Design
 Management 3040 - Finance
 Management 3050/Political Science 3410 - Human Resource Management
 Management 3080 - Managerial Skill Development
 Management 4090 - Management Policy and Strategy

Electives:

Four Management courses at the 3000/4000 level

3. All degree requirements must be completed within ten years after admission to the Faculty of Management.

Note: *Students should be aware that these are the requirements for a General Major in Management and that additional courses may be required for a specific major. Students who choose to complete a specific Management major in the Combined Degrees Program may be required to extend their programs beyond 50 courses.*

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

**The Education Foundations Requirement may be met in the following ways:*

- a. One course from the following list:

Education 4310
 Education 4311
 Education 4320
 Education 4321
 Education 4341
 Education 4360
 Education 4361
 Education 4362
 Education 4380
 Education 4381
 Education 4391

- b. One appropriate Independent Study.

3. Maintenance of a program grade point average 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 General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).

d. Academic Regulations

In the Combined Degrees program, students divide their time between different Faculties which measure different standards of academic performance. Students should read the academic regulations for each Faculty in which a portion of the Combined Degrees will be taken. For the B.Mgt./B.Ed., students should be aware of the Arts and Science regulations (**Part 5**), Education regulations (**Part 6**) and Management regulations (**Part 8**).

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 transcripts upon completion of a minor. Please refer to **Section 3e (pp. 186-189)** for information on Education Minor Requirements.

f. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge, including 15 Education courses and ten Management courses, seven of which must be at the 3000/4000 level.

g. Special Study Arrangements

Independent Study

A maximum of two Independent Studies may be completed in the B.Ed. portion of the 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 (see Student Program Services for policies and procedures governing Study Tours).

Applied Studies

Eligible students in the Faculty of Education may earn up to five course credits through Applied Studies, designated by the numbers Education 2501, 2510 and 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.

Waiver of Practica

Students who have successful teaching experience may have waived any one or all of Education 2500, 3500 or 3600, but are required to complete a minimum of one Field Experience course. Requests must be submitted to the Assistant Dean, Student Program Services, Faculty of Education.

h. Sample Program

Please refer to Page 213.

Sample B.Mgt./B.Ed. Combined Degree - 50 Courses

Pre-B.Mgt./B.Ed. - Year 1

Fall Semester	
5	Economics 1001 Statistics 1770 Liberal Education course (Fine Arts and Humanities) Liberal Education course (Fine Arts and Humanities) Liberal Education course (Science)

Spring Semester	
5	Economics 2000 Liberal Education course (Fine Arts and Humanities) Liberal Education course (Social Science) Liberal Education course (Science) Non-Management elective

Admission to the Faculty of Management

Year 2

Fall Semester	
5	Management 2000 Management 2060 Management 2100 Liberal Education course (Fine Arts and Humanities) Liberal Education course (Social Science)

Spring Semester	
5	Education 2500 Management 2400 Management 2700 Liberal Education course (Science) Non-Management elective

Admission to the Faculty of Education

Year 3

Fall Semester	
4	Professional Semester I (PSI): Educational Psychology General Curriculum and Instruction Language in Education Seminar in Teaching Evaluation of Student Learning Communications Technology and Education Practicum - Equivalent to 125 hours in a school
1	

Spring Semester	
5	Management 3010 Management 3030 Management 3080 Management elective Management elective

These two semesters may be interchanged for some undergraduate students who have difficulty meeting their Arts and Science obligations or those who have more than the minimum number of Arts and Science courses.

Year 4

Fall Semester	
5	Management 3020 Management 3040 Management 3050 Management elective Management elective

Spring Semester	
3	Professional Semester II (PS II): Principles of Curriculum and Instruction for Majors Evaluation of Student Learning Psychology and Education of Atypical Children in Regular Classrooms Social Context of Schooling Practicum - Equivalent to 150 hours in a school
2	
1	
4	
5	

Year 5

Fall Semester	
3	Professional Semester III (PS III): This is the internship semester for secondary subject-based majors and special focus students
2	

Spring Semester	
5	Management 4090 Education Foundation course Education elective Education elective Education elective

Elementary students will reverse these two semesters and complete PS III in the Spring.

COMBINED DEGREES

8. BACHELOR OF ARTS/BACHELOR OF MANAGEMENT BACHELOR OF SCIENCE/BACHELOR OF MANAGEMENT

a. Admission

Students begin their Combined Degrees program in the Faculty of Arts and Science where they must meet the requirements both for their Arts and Science major and for admission to the Faculty of Management. Students may be admitted to the pre-B.A./B.Mgt. or pre-B.Sc./B.Mgt. when they are admitted to the University. After 10 courses, students may apply to the Faculty of Management and, if accepted, will be formally registered in the B.A./B.Mgt. or B.Sc./B.Mgt. program. Students are not officially in the Combined Degrees program until they have been admitted to BOTH the Faculty of Arts and Science (through admission to the University) and to the Faculty of Management. If a student is admitted to the Combined Degrees program and subsequently chooses or is required to withdraw from the Faculty of Management, he or she must make formal application to the Faculty or School in which he or she intends to pursue a degree.

1. Faculty of Management Admission Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.

a. Completion of 10 courses which must include:

Economics 1001 - Introduction to Economics

Economics 2000 - Introduction to Macroeconomics

Statistics 1770 - Introduction to Probability and Statistics

Seven Arts and Science courses at the 1000/2000 level

Note: All students seeking admission to the B.A./B.Mgt. or B.Sc./B.Mgt. must complete the above pre-Management courses. Students must choose one major. See **Part 8, Faculty of Management**, for further information.

b. A minimum cumulative grade point average of 2.00. The grade point average is calculated on the basis of all graded courses including the admission-level compulsory Management courses.

c. Students must satisfy a Writing Proficiency requirement by:

1. Obtaining a grade of 75 percent or better on the Alberta English 30 diploma exam;
2. Obtaining a grade of 80 percent or better in an equivalent English course from any province;
3. Passing the Alberta Universities' Writing Competency Test (AUWCT);

4. Obtaining a pass in the Writing for University course;

5. Successful completion of Management 3090 with a minimum grade of C-;

6. Obtaining a B grade or better in a University English course; or,

7. Successful completion of a recognized degree from an English-language university.

d. A minimum grade of C- must be obtained in all specified courses (i.e., Economics 1001, 2000 and Statistics 1770) listed in the Calendar for admission to the Faculty. No specified required courses may be placed on Credit/Non-Credit.

e. A personal interview may be required.

f. Students seeking the B.A./B.Mgt. or B.Sc./B.Mgt. degrees may take a maximum of five 3000/4000-level Management courses prior to being formally admitted to the Combined B.A./B.Mgt. or B.Sc./B.Mgt. Degrees program.

b. Arts and Science Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./Mgt.

1. General Requirements

a. Completion of at least 30 Arts and Science courses with a cumulative grade point average of at least 2.00.

b. Completion of the General Liberal Education Requirement (see **Part 4 - Academic Regulations, Section 6, pp. 64-66**).

c. Completion of all entrance requirements to the Faculty of Management (see Admission Requirements above).

d. For the B.A., at least 13 further courses not from the list Science Courses. For the B.Sc., at least 13 further courses from the list Science Courses (see **Part 5 - Arts and Science, Section 16 - Divisional Course Designation, pp. 78-79**).

e. At least nine Arts and Science courses from the 3000/4000 series (not Activity courses).

f. Not more than three Independent Study courses may be taken for credit towards the degree.

g. Not more than eight introductory courses at the 0100/1000 level. For 0100/1900-level introductory courses which have a 0100/1000-level background or prerequisite, only the first course in the series counts toward this limit. Activity courses are also exempted from this limit.

- *h. Not more than 15 courses from one Department.
- i. Not more than four Activity courses (except for Dramatic Arts majors, 8; Music majors, 8; Physical Education majors, 16; Recreation and Leisure Studies majors, 10) for credit towards the degree.
- j. All degree requirements must be completed within 20 years after admission to the program.

***Note:** For purposes of these regulations, *Mathematics and Computer Science; Geography and Archaeology; and French, German and Spanish may be considered as separate Departments.*

Students seeking the B.A./B.Mgt. or B.Sc./B.Mgt. degrees may not declare similar majors. For example, if Economics, Native American Studies or Political Science is chosen for the B.A. portion of the B.A./B.Mgt. program, Economics, BESS or Political Science respectively must be excluded from the list of B.Mgt majors. If Computer Science or Mathematics is chosen for the B.Sc. portion of the B.Sc./B.Mgt. program, Computer Science and Mathematics must be excluded from the list of B.Mgt. majors.

c. Management Degree Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.

- 1. General Requirements
 - a. A minimum GPA of 2.00 in Management courses.
 - b. Completion of at least 20 Management courses including: the seven core courses, the 2000-level Management courses required in the Management major, the 3000/4000-level Management courses required in the Management major and 3000/4000-level Management electives.
 - c. All degree requirements must be completed within ten years after admission to the Faculty of Management.

d. Major Requirements for the 50-Course B.A./B.Mgt. or B.Sc./B.Mgt.

- 1. Arts and Science
 - a. For the B.A., the major program must be chosen from Anthropology, Art, Dramatic Arts, Economics, English, French, French/German, Geography, German, History, Music, Native American Studies, Philosophy, Physical Education, Political Science, Psychology, Religious Studies, Sociology, a General Major in the Humanities, a General Major in the Social Sciences or an approved multidisciplinary major program in Canadian Studies, Recreation

and Leisure Studies or Urban and Regional Studies. The multidisciplinary major in Agricultural Studies is specifically excluded from the Combined Degrees.

- b. For the B.Sc., the major program must be chosen from Biological Sciences, Chemistry, Computer Science, Geography, Mathematics, Physics, Psychology, a General Major in the Sciences, or an approved multidisciplinary major program in Urban and Regional Studies. The multidisciplinary majors in Agricultural Biotechnology, Agricultural Studies, Biochemistry and Neuroscience are specifically excluded from the Combined Degrees.
- c. Not more than 15 courses are to be included in a disciplinary major.
- d. At least 15 courses are required in a multidisciplinary major.
- e. At least one-half of the courses in the major discipline must be completed at the University of Lethbridge.
- f. General Majors in the Humanities, Social Sciences and Sciences require at least 16 courses for the major, at least six of which must be at the 3000/4000 level, with a concentration of at least four courses from each of three disciplines. General Majors in the Humanities must complete a course in a language other than English; General Majors in the Social Sciences must complete a Quantitatively-based Methodology course; General Majors in the Sciences must complete a Science in Human Affairs course. For purposes of the B.A. degree with a General Major in the Humanities, French, German, and Spanish may not be considered as separate disciplines (see pages 225-227 for further information).
- g. All specific requirements for a disciplinary major must be fulfilled. Total requirements for each disciplinary major program follow:

1. Anthropology

Students must complete a minimum of 13 courses.

Required courses include:

- Anthropology 1000 - Introduction to Social/Cultural Anthropology
Two courses at the 2000 level
- Anthropology 3000 - The History of Anthropological Thought
- One course from Anthropology 3100 - Series on Regional Ethnography

Three additional courses from the 3000 level, excluding Anthropology 3980 (Applied Studies) and Anthropology 3990 (Independent Studies)
Three courses from the 4000 level, excluding Anthropology 4980 (Applied Studies) and Anthropology 4990 (Independent Studies)

2. Art

Students must complete a minimum of 13 courses (39.0 credit hours).

Required courses include:

Art 1000 - Introduction to Art

One of: Art 2030* - Visual Foundations
OR Art 2315 - Fundamentals of Drawing, and
Art 2316 - Fundamentals of Art Making, and
An approved portfolio

Art 2230 - Western Art History 15th Century to Present

Art 3010 (3150) - Drawing

Art 3220 - Art: 1945 to 1970

Art 3240 - Canadian Art History

Art 3250 - Art Since 1970

Five additional Art electives (to total 15.0 credit hours)

**6.0 credit hours*

3. Biological Sciences

Students must complete the 13-course Combined Degrees major in Biological Sciences.

Required courses include:

Biology 1010 (Biology 1000 prior to 1996/97) - Cellular Basis of Life

Biology 1020* - Diversity of Life

Biology 2000 - Principles of Genetics

Biology 2200 - Principles of Ecology

Biology 3300 - Evolution

Plus: A minimum of two courses in two of the following areas: Biology, Botany or Zoology, plus a minimum of one course in the third area. Of these five courses, at least three must be at the 3000 or 4000 level.

**Students who have taken both Botany 2000 and Zoology 2000 prior to 1996/1997 will have met this requirement.*

In addition, three courses in cognate disciplines are also required:

One Chemistry course; Chemistry 2100 (Elements of Organic Chemistry I) is recommended

One Physics course; Physics 1050 (Introduction to Biophysics) is recommended

One course in Computer Science, Mathematics or Statistics

4. Chemistry

The major in Chemistry requires a minimum of ten Chemistry courses: a maximum of 15 courses is allowed for the B.Sc./B.Mgt. degree. In addition, at least one course in each of Mathematics and Physics is required.

List A - Specified Chemistry Courses

The following Chemistry courses must be taken:

Chemistry 1000 - Atoms, Molecules and Chemical Reactions

Chemistry 2000 - Chemical Equilibrium and Electrochemistry

Chemistry 2410 - Introduction to Analytical Chemistry

Chemistry 2500 - Organic Chemistry I

Chemistry 2600 - Organic Chemistry II

Chemistry 2710 - Chemical Kinetics

Chemistry 2720 - Introduction to Chemical Thermodynamics

Chemistry 2810 - Introduction to Inorganic Chemistry

List B - Elective Chemistry Courses

Choose two courses from this list to complete the requirement of a minimum of ten courses in Chemistry:

Chemistry 3310 - Biochemistry I

Chemistry 3320 - Biochemistry II

Chemistry 3410 - Instrumental Methods of Analysis

Chemistry 3420 - Electroanalytical Chemistry

Chemistry 3500 - Organic Chemistry III

Chemistry 3730 - Quantum Principles and Spectroscopy

Chemistry 3810 - Chemistry of the Main Group Elements
Chemistry 3820 - Chemistry of the Transition Elements

List C - Required Mathematics and Physics Courses

The following courses must also be taken:

Physics 1000 - Introduction to Physics I

Mathematics 1560 - Calculus I

Mathematics 2560 - Calculus II
(if Chemistry 3730 is included in the major)

The major in Chemistry for the Combined Degrees program is not accredited by the Canadian Society for Chemistry nor is it normally sufficient, in the absence of further study in the field, for pursuing graduate studies in Chemistry at a Canadian university.

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. As a result, careful planning of the program for the major in Chemistry is required in order to be in position to take courses when they are offered. Consequently, students who intend to pursue a degree program 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 Chemistry Department in an early stage of their studies.

5. Computer Science

Students must complete the 12-course Combined Degrees major in Computer Science.

Required courses:

Computer Science 1620 (1600) - Introduction to a Programming Language

Computer Science 2610 - Introduction to Digital Systems

Computer Science 2620 (2650) - Advanced Programming Techniques

Computer Science 2660 - File Processing

Computer Science 2690 - Systems Programming

Computer Science 3620 - Data Structures

Computer Science 3660 - Introduction to Database Systems

Three additional 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 4980 - Applied Studies and Computer Science 4990 - Independent Study).

In addition, two courses in Mathematics are required:

Mathematics 1410 (1450) - Elementary Linear Algebra

Mathematics 2865 (2850) - Combinatorial Mathematics

Recommended courses include:

Mathematics 2000 (2450) - Mathematical Concepts

6. Dramatic Arts

Students must complete a minimum of 13 courses.

Required courses include:

Drama 1000 - Introduction to Dramatic Arts

Drama 2120 - History and Development of Theatre I

Drama 2130 - History and Development of Theatre II

At least five courses in the major must be at or above the 3000 level, with at least one at the 4000 level

7. Economics

Students must complete a minimum of 13 courses.

Required courses include:

Economics 1001 - Introduction to Economics

Economics 2000 - Principles of Macroeconomics

Economics 2001 - Principles of Microeconomics

Economics 2900 - Quantitative Methods in Economics

Economics 3000 - Intermediate Macroeconomic Theory

Economics 3001 - Intermediate Microeconomic Theory

At least three Economics courses at the 4000 level

8. English

Students must complete a minimum of 13 courses.

Required courses include:

English 1900 - The World of Words

Five of: English 2000 - Survey of Canadian Literature

English 2100 - Poetry

English 2200 - Fundamentals of Drama

English 2300 - Prose Fiction

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 2800 - Rhetoric

English 2900 - The English Language

One of: English 3401 - Medieval Literature

English 3601 - Chaucer

English 3101 - Metaphysical and Cavalier Poetry

English 3201 - Elizabethan and Jacobean Drama

English 3402 - Renaissance Literature

English 3602 - Shakespeare

English 3102 - 18th-Century Poetry

English 3202 - Restoration and 18th-Century Drama

English 3301 - 18th-Century Novel

One of: English 3103 - Romantic Poetry

English 3104 - Victorian Poetry

English 3105 - Modern Poetry

English 3203 - Modern British, Irish and American Drama

English 3204 - Contemporary British and Irish Drama

English 3205 - Modern European Drama

English 3302 - 19th-Century British Novel

English 3303 - Modern British Novel

English 3304 - 19th-Century American Novel

English 3305 - Modern American Novel

One of: English 3001 - Canadian Poetry
English 3002 - Canadian Drama
English 3003 - Canadian Fiction
English 3700 - Genres and Forms Series

English 3800 - Creative Writing
English 3880 - Studies in Rhetoric Series

English 3901 - History of the English Language

One of: English 4000 - Seminars in Canadian Literature Series

English 4400 - Seminars and Tutorials in English Literature and Language Series

English 4600 - Major Authors Series

English 4800 - Advanced Creative Writing Workshop

Three additional 3000- or 4000-level courses in English

All students majoring in English are required to take a minimum of 13 courses, excluding Independent Studies or Applied Studies. At least seven must be at the 3000 and 4000 levels, of which at least one must be at the 4000 level.

Independent Studies and Applied Studies are definitely encouraged beyond the minimum of 13 courses required for a major.

9. French

Students must complete the 10-course Combined Degrees major in French.

Majors must successfully complete a minimum of 10 courses in French

Five of the 10 courses must be at the 3000/4000 level

Linguistics 2300 may replace one of the courses in French

10. French/German

Majors must successfully complete a minimum of 15 courses, which must include:

A minimum of eight courses in French

A minimum of six courses in German

Linguistics 2300 - Introduction to Linguistics

Four courses at the 3000/4000 level

11. Geography

Students must complete the 10-course Combined Degrees major in Geography.

Required courses include:

Geography 1000 - Introduction to Physical Geography

Geography 2015 - Weather and Climate

Geography 2030 - Geomorphology

Geography 2060 - Environmental Systems

Geography 2200 - Introduction to Human Geography

Geography 2210 - Urban and Economics Geography

Geography 2700 - Geographical Data and Analysis

Three additional courses in Geography, two of which must be at the 3000/4000 level

12. German

Majors must successfully complete a minimum of 13 courses in German, which must include:

A minimum of seven courses at the 3000/4000 level, of which at least two must be at the 4000 level

Linguistics 2300 may replace one of the courses in German

Participation in the Department's German Visiting Student program is compulsory for students majoring in German. For details, see the German Off-Campus Studies Coordinator in the Department of Modern Languages.

13. History

Students must complete the 10-course Combined Degrees major in History.

Required courses include:

History 1000 - Western Civilization

Three of: History 2001 - Main Themes in Ancient History

History 2200 - Main Themes in Russian History

History 2250 - China in the 19th and 20th Centuries

OR 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 - History of Women

One of: History 2102 - Early Modern Europe - 1500-1750

History 2150 - The Politics of Europe - 1750-1914

One of: History 2710 - Canada to 1867

History 2720 - Canada Since 1867

Four History courses at the 3000 level or higher, including at least two 4000-level courses (excluding History 4980 - Applied Studies and History 4990 - Independent Studies)

The Department strongly advises students intending to pursue graduate studies to take History 4000 and 4990. History majors should meet with the Department advisor once a semester in order to ensure that an appropriate program is being planned.

14. Mathematics

13-course Combined Degrees major in Mathematics:

Students must complete at least 13 courses offered by the Department of Mathematics and Computer Science, including the following required courses:

Mathematics 1410 (1450) - Elementary Linear Algebra

Mathematics 1560 - Calculus I

Mathematics 2000 (2450) - Mathematical Concepts

Mathematics 2560 - Calculus II

Mathematics 2570 - Calculus III

Mathematics 2580 - Calculus IV

Mathematics 3400 - Group and Ring Theory

Mathematics 3410 (3450) - Linear Algebra

Mathematics 3500 - Analysis

One additional 3000/4000-level Mathematics or Statistics course regularly offered by the Department of Mathematics and Computer Science (excluding Mathematics 3980/4980, Statistics 3980/4980 - Applied Studies and Mathematics 3990/4990, Statistics 3990/4990 - Independent Study)

Required Cognates:

Computer Science 1620 (1600) - Introduction to a Programming Language
 Statistics 1770 - Introduction to Probability and Statistics
 Statistics 2780 - Statistical Inference

Note: *Students are strongly encouraged to include additional Computer Science courses in their program.*

15. Music

Students must complete the 15-course Music major.

Required courses include:

Music History/Literature

Music 1021 - Music Foundations*
 Music 2321 - History and Literature of Music in Western Civilization I: Baroque and Classic Periods
 Music 2421 - History and Literature of Music in Western Civilization II: The Romantic Period

*Students with transfer credit for Music 1000 will have met this requirement.

Music Theory Requirement

Music 2111 - Music Theory I
 Music 2211 - Music Theory II
 Music 3311 (2311) - Music Theory III
 Music 3411 (2411) - Music Theory IV

After completing the core requirements, students then select one of the following two streams and complete the additional courses for that particular stream.

a. Theory/History Stream

Music 3521 - History and Literature of Music in Western Civilization III: Antiquity, Medieval and Renaissance Periods

Music 3611 - Theory and Composition in the 20th Century

Music 3621 - History and Literature of Music in Western Civilization IV: The 20th Century

Five Music options, including one at the 4000 level, excluding Music 1000, 1011 and 1021, and excluding Ensemble Activities other than the University Singers, Vox Musica, the University Wind Ensemble and Accompanying

b. General Stream

Music 2148 - Music Studio I - (Instrument)

Music 2248 - Music Studio II - (Instrument)

Music 3348 (2348) - Music Studio III - (Instrument)

Music 3448 (2448) - Music Studio IV - (Instrument)

Music 3500 - Conducting I

Music 3721 (2600) - World Music

Four Music Ensemble Activity courses (Each Music Ensemble Activity course counts as one-half course).

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 Vox Musica
Studio pianists	A minimum of two semesters of: Accompanying, and one of: University Singers Vox Musica Wind Orchestra
Studio string	Any of: Accompanying University Singers Vox Musica Wind Orchestra (or through Independent Study by permission of the Division of Music)

No more than two Music Ensemble Activities may be counted toward the Ensemble participation requirement in a given semester.

16. Native American Studies

Students must complete the 13-course Native American Studies major, including three courses at the 3000 level and one at the 4000 level.

Required courses include:

Blackfoot and Cree Languages

One course in either language

Art and Literature

One of: Native American Studies 2300 - Native American Indian Art History and Theory
Native American Studies 2350 - Native American Indian Art Studio
Native American Studies 2600 - Native American Literature

Culture and History

One of: Native American Studies 2000 - Native American Philosophy
Native American Studies 2500 - Canadian Indian History
Native American Studies 2550 - U.S. Indian History

Law and Politics

One of: Native American Studies 2100 - Aboriginal Peoples and Law
Native American Studies 2150 - Native Rights in the United States
Native American Studies 2800 - Native American Politics

Contemporary Issues

One of: Native American Studies 2400 - Traditional Aboriginal Political Economy
Native American Studies 2700 - Native American Women
Native American Studies 3700 - Native American Health

Native American Studies 1000 is a prerequisite for all Native American Studies courses unless otherwise specified. This excludes languages.

In addition to the above requirements, it is recommended that Native American Studies majors take one of the following courses:

Archaeology 1000 - Introduction to Archaeology
Economics 1001 - Introduction to Economics
Philosophy 1000 - Introduction to Philosophy
Political Science 1000 - Introduction to Political Studies

17. Philosophy

Students must complete the 13-course Philosophy major, including one course listed under each of the five following headings:

Logic

One of: Logic 2001 - Inductive Logic
Logic 2002 - Deductive Logic
Logic 3001 - Deviant Logic
Logic 4001 - Mathematical Logic

History of Philosophy

One of: Philosophy 2060 - Existentialism and Phenomenology
Philosophy 2010 - Ancient Philosophy
Philosophy 2030 - Philosophy in the 17th and 18th Centuries: Empiricism and Continental Rationalism
Philosophy 3340 - 19th-Century Philosophy
Philosophy 3350 - Analytic Philosophy in the 20th Century

Philosophy of Values

One of: Philosophy 2111 - Introduction to Value Theory
Philosophy 2120 - Contemporary Moral Problems
Philosophy 2150 - Aesthetics
Philosophy 3401 - Social and Political Philosophy
Philosophy 3402 - Biomedical Ethics
Philosophy 3403 - Philosophy of Love and Sex
Philosophy 3404 - Philosophy of Law
Philosophy 3405 - Philosophy of Feminism
Philosophy 3406 - Business Ethics
Philosophy 3407 - Social Justice and Property
Philosophy 3408 - Feminist Moral Theory
Philosophy 4500 - Great Works in Ethics (Series)

Philosophy of Reality

One of: Philosophy 2210 - Philosophy of Religion
Philosophy 2220 - Philosophy of Mind
Philosophy 2231 - Philosophy and the World View of Science: Space, Time and Matter

Philosophy 2232 - Philosophy and the World View of Science: Earth and Life Sciences
 Philosophy 3260 - Metaphysics
 Philosophy 3270 - Theory of Knowledge
 Philosophy 3280 - Philosophy of Language

Philosophy 4000 Level

One of: Special Topics or Independent Study at the 4000 level

18. Physical Education

Students must complete the 13-course Physical Education major.

Required courses include:

Ten theory courses

Physical Education 1000 - Wellness and Physical Activity
 Physical Education 2000 - Foundations of Motor Skill Acquisition
 Physical Education 2110 - Biological and Physical Science Dimensions of Physical Activity Involvement
 Physical Education 2120 - Sociological and Psychological Dimensions of Physical Activity Involvement
 Physical Education 2130 - Humanities Dimensions of Physical Activity Involvement
 Physical Education 2200 - Research Methodologies in Physical Activity Involvement
 Physical Education 4900 - Seminar
 Three more Physical Education courses, two of which must be at or above the 3000 level

Six Physical Activity courses, including at least one from each of the following three groups and two of the six at the 3000 level or higher:

Group A

Physical Activity 1605 - Curling
 Physical Activity 1615 - Court Games
 Physical Activity 1625 - Golf
 Physical Activity 1635 - Tennis
 Physical Activity 1655 - Ice Skating
 Physical Activity 1665 - Archery
 Physical Activity 1675 - Bowling

Physical Activity 1685 - Badminton
 Physical Activity 2005 - Swimming I
 Physical Activity 2155 - Track and Field I
 Physical Activity 2705 - Outdoor Education: Summer Activities
 Physical Activity 2715 - Outdoor Education: Winter Activities
 Physical Activity 3005 - Swimming II
 Physical Activity 3155 - Track and Field II
 Physical Activity 4005 - Swimming III

Group B

Physical Activity 1125 - Rhythmic Gymnastics
 Physical Activity 1205 - Folk and Square Dance
 Physical Activity 1215 - Social and Round Dance
 Physical Activity 1695 - Fencing
 Physical Activity 2125 - Artistic Gymnastics
 Physical Activity 2225 - Children's Dance
 Physical Activity 2235 - Creative Dance
 Physical Activity 2405 - Wrestling I
 Physical Activity 2425 (1415) - Judo I
 Physical Activity 2445 (1645) - Weight Training I
 Physical Activity 3105 - Men's Artistic Gymnastics
 Physical Activity 3115 - Women's Artistic Gymnastics
 Physical Activity 3405 - Wrestling II
 Physical Activity 3425 (2415) - Judo II
 Physical Activity 3445 (2645) - Weight Training II

Group C

Physical Activity 2505 - Basketball I
 Physical Activity 2515 - Football I
 Physical Activity 2525 - Ice Hockey I
 Physical Activity 2535 - Soccer I
 Physical Activity 2545 - Volleyball I
 Physical Activity 3505 - Basketball II

Physical Activity 3515 - Football II
 Physical Activity 3525 - Ice Hockey II
 Physical Activity 3535 - Soccer II
 Physical Activity 3545 - Volleyball II

19. Physics

Students must complete the 12-course Combined Degrees major in Physics.

Required courses include:

One of: Physics 1000 - Introduction to Physics I
 Physics 1050 - Introduction to Biophysics
 Physics 2000 - Introduction to Physics II
 Physics 2020 - Physics and Society
 Physics 2150 - Wave Mechanics
 Physics 2600 - Electricity and Magnetism
 Physics 2800 - Methods in Mathematical Physics
 Physics 2900 - Experiments in Physics

One of: Physics 3150 - Quantum Mechanics I
 Physics 3650 - Electromagnetic Radiation
 Two other courses offered by the Department of Physics, one of which may be in Astronomy or Engineering

Required cognates:

Mathematics 1560 - Calculus I
 Mathematics 2560 - Calculus II

20. Political Science

Students must complete the 13-course Political Science major.

Required courses include:

At least four courses at the 2000 level in four different subfields
 At least one course at the 4000 level
 At least six courses at the 3000 level, drawn from at least three of the following subfields:

International Relations

Political Science 3120 - Canadian Foreign Policy
 Political Science 3150 - International Politics and Foreign Policy

Political Science 3160 - International Law and Organization

Canadian Government

Political Science 3120 - Canadian Foreign Policy
 Political Science 3210 - Urban Government and Politics
 Political Science 3230 - Provincial Government and Politics
 Political Science 3241 (3240) - Canadian Constitutional Law I: The Structures and Powers
 Political Science 3242 (3240) - Canadian Constitutional Law II: The Charter
 Political Science 3250 - Alberta Politics and Government
 Political Science 3260 - Canadian Public Policy

Comparative Politics

Political Science 3320 - Western European Political Systems
 Political Science 3330 - Russia and Environs
 Political Science 3340 - American Government
 Political Science 3350 - Government and Politics of South Asia
 Political Science 3360 - Developing Nations
 Political Science 3370 - African Politics
 Political Science 3430 - Comparative Public Administration

Public Administration

Political Science 3410/Management 3030 - Organizational Behaviour, Theory and Design
 Political Science 3420/Management 3050 - Human Resource Management
 Political Science 3430 - Comparative Public Administration

Political Theory

Political Science 3510 - History of Political Thought
 Political Science 3520 - Socialism and Communism

Political Behaviour

Political Science 3710 - Public Opinion and Propaganda

COMBINED DEGREES

Political Science 3730 - Mass Media and Politics

At the discretion of the Department, Special Topics (3850) and Independent Study (3990) credit may also be taken as satisfying subfield requirements

21. Psychology

Students must complete the 13-course Psychology major.

Requirements for a major in Psychology are:

Psychology 2320 - Cognitive Psychology

Psychology 2600 - Brain and Behaviour

Psychology 2700 - Introduction to Animal Behaviour

Psychology 2800 - Social Psychology

Psychology 3010 (2400) - Introduction to Statistics in Psychological Research

One 4000-level Psychology course

At least seven other Psychology courses

Note: The selection among the seven additional courses is limited by the prerequisites of the required courses as follows:

- If Psychology 4320 is taken, the following courses are required: Psychology 2010
One of Psychology 3200, 3320, 3330 or 3340
- If Psychology 4600 is taken, the following course is required: Psychology 3600 or 3605
- If Psychology 4700 is taken, the following course is required: Psychology 3700
- If Psychology 4800 is taken, the following courses are required: Psychology 2010 and 3800

Although Psychology 1000 is normally the first Psychology course taken, it is not required if the first Psychology course taken is either Psychology 2600 or 2700. Students who wish to pursue graduate studies in Psychology should take Psychology 4010 (3400).

22. Religious Studies

A major in Religious Studies requires a minimum of ten courses, to be selected from the following list, as specified:

Religious Studies 1000 - Introduction to World Religions

At least three of the following 2000-level courses, with at least one from the Eastern Religions section and one from the Western Religions section:

Eastern Religions

Religious Studies 2100 - The Hindu Tradition

Religious Studies 2110 - Asian Philosophy

Religious Studies 2200 - The Buddhist Tradition

Religious Studies 2300 - East Asian Religions

Western Religions

Religious Studies 2020 - Ancient Religions and Mythology

Religious Studies 2500 - Christianity

Religious Studies 2600 - Islam

At least three of:

Religious Studies 3000 - Studies in Religious Traditions (Series)

Religious Studies 3010 - Religion and Society

Religious Studies 3020 - Women and World Religions

Religious Studies 3100 - Studies in Indian Religion (Series)

Religious Studies 3300 - Studies in East Asian Religions (Series)

Religious Studies 3510 - The Early Church

Religious Studies 3550 - Religion in North America

Religious Studies 3560 - Mormon Society and Culture

Religious Studies 4000 - Seminar in Religious Studies (Series)

Anthropology 3500 - Ritual

Archaeology 3170 - Syro-Palestinian Archaeology

Archaeology 3171 - Ancient Israel

Archaeology 4170 - Ancient Near Eastern World

History 3402 - The Reformation

History 4009 - Seminars in Ancient History (Series)

(New Religions in the Ancient Mediterranean World)

Native American Studies 2000 - Native American Philosophy

Native American Studies 3000 - Native American Philosophy (Advanced)
 Philosophy 2010 - Ancient Philosophy
 Philosophy 2120 - Contemporary Moral Problems
 Philosophy 3260 - Metaphysics
 Religious Studies 4001 - Concepts and Methods in the Study of Religion
 One Independent Study course in Religious Studies at the 3000 or 4000 level

At least one of:

Anthropology 3550 - Anthropology of Religion
 Sociology 3330 - Sociology of Religion
 Philosophy 2210 - Philosophy of Religion

Note: *From time to time, topics courses in some departments will address the subject of religion. These will be considered for credit toward a Religious Studies major on an individual basis when requested by the student.*

23. Sociology

Students must complete the 10-course Combined Degrees major in Sociology.

Sociology 1000 - Basic Concepts in Sociology
 Sociology 2100 - Research Methodology
 Sociology 2200 - Classical Sociological Theory
 Sociology 2210 - Contemporary Sociological Theory

One of: Sociology 3110 - Survey Research
 Sociology 3120 - Qualitative Research Methods

Five additional courses in Sociology, four of which must be at the 3000/4000 level

Note: *Students in the B.A. (Sociology)/B.Mgt. program must complete Sociology 3120 if their Management major is either Human Resource Management and Organization Studies or Marketing.*

24. General Major in the Humanities

a. Students must select three disciplinary streams from the following:
 One of Art, Dramatic Arts or Music
 English - all courses

One of French, German or Spanish (Linguistics 2300 may be substituted for one of the courses in the chosen language)

Classical Languages
 Greek - all courses
 Hebrew - all courses
 Latin - all courses
 History - all courses
 Native American Studies - all courses (including courses in Blackfoot and Cree)
 Philosophy - all courses
 Religious Studies - all courses

b. Major Requirements

1. Students seeking a General Major in the Humanities must complete at least 16 courses from the Humanities streams indicated in a. above.
2. Of the above 16, six must be at the 3000 to 4000 level and four must be completed from each of the three disciplinary streams at any level.
3. General Majors in the Humanities must complete a course in a language other than English. The language course is counted as part of the 16-course minimum for the major.
4. General Majors in the Humanities must abide by the General Liberal Education Requirement and departmental requirements regarding prerequisites and course sequencing.

25. General Major in the Social Sciences

- a. Students must select three disciplinary streams from the following:
- Anthropology - all courses
 Economics - all courses designated Social Science
 Geography - all courses designated Social Science (Geography 1000 may be included, although it is designated Science. Courses in Archaeology and Geology may not be included)
 History - all courses
 Native American Studies - all courses (courses in Blackfoot and Cree may not be included)
 Physical Education - all courses designated Social Science (Physical Activity courses may not be included)

Political Science - all courses
 Psychology - all courses designated
 Social Science (Psychology 1000
 and 2010 may be included, although
 they are designated Science)
 Sociology - all courses
 Women's Studies - all courses

Note: *Students who select Women's
 Studies as one of the disciplinary
 streams must include:*

*Women's Studies 2000 -
 Issues in Women's
 Studies
 Women's Studies 3500 -
 Feminist Theory
 One of: Women's Studies 2700 -
 Feminist Research and
 Methodologies
 Sociology 3120 -
 Qualitative Research
 Methods*

b. Major Requirements

1. Students seeking a General Major in the Social Sciences must complete at least 16 courses from the Social Science streams indicated in **a.** above.
2. Of the above 16, six must be at the 3000 to 4000 level and four must be completed from each of the disciplinary streams at any level.
3. General Majors in the Social Sciences must complete a Quantitatively-based Methodology course. This course is counted as part of the 16-course minimum for the major.

"Quantitatively-based Methodology" courses for the General Major in the Social Sciences include:

Economics 2900 -
 Quantitative Methods in
 Economics
 Geography 3730 - Spatial
 Statistics
 Psychology 3010 (2400) -
 Introduction to Statistics
 in Psychological Research
 Sociology 2130 - Social
 Statistics
 Statistics 2780 - Statistical
 Inference

4. General Majors in the Social Sciences must abide by the General Liberal Education Requirement and departmental

requirements regarding prerequisites and course sequencing.

26. General Major in the Sciences

- a. Students must select three disciplinary streams from the following:

Archaeology - all courses
 Biological Sciences
 Biology - all courses
 Botany - all courses
 Zoology - all courses
 Chemistry - all courses
 Computer Science - all courses
 Geography - all courses designated
 Science (including courses in
 Geology)
 Mathematics - all courses (including
 courses in Statistics)
 Physical Education - all courses
 designated Science (Physical
 Activity courses may not be
 included)
 Physics - all courses (including courses
 in Astronomy and Engineering)
 Psychology - all courses designated
 Science

b. Major Requirements

1. Students seeking a General Major in the Sciences must complete at least 16 courses from the Science streams indicated in **a.** above.
2. Of the above 16, six must be at the 3000 to 4000 level and four must be completed from each of the three disciplinary streams at any level.
3. General Majors in the Sciences must complete a "Science in Human Affairs" course. This course is counted as part of the 16-course minimum for the major.

"Science in Human Affairs" courses for the General Major in the Sciences include:

Biology 2050 - Biology and
 Human Affairs
 Chemistry 2250 - Elements
 of Human Nutrition
 Geography 2060 -
 Environmental Systems
 Philosophy 2231 -
 Philosophy and the
 World View of Science:
 Space, Time and Matter
 Philosophy 2232 -
 Philosophy and the
 World View of Science:
 Earth and Life Sciences

Philosophy	3402	-
Biomedical Ethics		
Physics	2020	- Physics and Society
Psychology	3810	- Environmental Psychology

4. General Majors in the Sciences must abide by the General Liberal Education Requirement and departmental requirements regarding prerequisites and course sequencing.

Approved Multidisciplinary Majors

For information regarding approved multidisciplinary majors (Canadian Studies, Recreation and Leisure Studies, and Urban and Regional Studies) which are eligible for the Combined B.A./B.Mgt. and B.Sc./B.Mgt. degrees, please refer to **Part 5** of this Calendar. The student should also contact an Academic Advisor in the Faculty of Arts and Science. Please note that the multidisciplinary majors in Agricultural Biotechnology, Agricultural Studies, Biochemistry and Neuroscience are specifically excluded from the Combined Degrees.

2. Management Majors

There are several majors available in the B.Mgt. portion of the B.A./B.Mgt. or B.Sc./B.Mgt. For complete information, please refer to **Part 8, Faculty of Management**. Note that the admission requirements outlined in this section include only those courses required in all Management programs, and that additional courses are necessary for the majors. Please see **Part 8, Faculty of Management - Section 3, Admission (p. 136)**. 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 programs beyond 50 courses.

e. Academic Regulations

In the Combined Degrees program, students divide their time between different Faculties which have different standards of academic performance. Students should read the academic regulations for each Faculty in which a portion of the combined degree will be taken. For the B.A./B.Mgt. or B.Sc./B.Mgt., students should be aware of the Arts and Science regulations (**Part 5**) and the Management regulations (**Part 8**).

f. Residence Requirement

Students must complete a minimum of 30 courses at the University of Lethbridge, including 20 Arts and Science courses and ten Management courses at the 3000/4000 level.

9. B.A. OR B.Sc. AFTER TRANSFER TO A PROFESSIONAL FACULTY

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 and Social Work in professional faculties elsewhere.

Students completing other professional degrees in combination with the initial 30-course Arts and Science programs may be awarded the B.A. or B.Sc. degree upon approval of the Faculty of Arts and Science.

Students intending to complete the B.A. or B.Sc. requirements in the above manner must have their programs approved by the Assistant Dean (Curriculum and Advising) of Arts and Science by the time they have completed 15 courses.

