



Academic Programs Committee of Council University Course Challenge

Scheduled posting: February 2012

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Approval:

Date of circulation: February 16, 2012

Date of effective approval if no Challenge received: March 2, 2012

Next scheduled posting:

University Course Challenge is now being posted once a month, on a regular schedule. The next scheduled Challenge document posting will be in March 2012, with a submission deadline of March 13, 2012. Urgent items can be posted on request.

COLLEGE OF AGRICULTURE AND BIORESOURCES

B.Sc. (Agbus) Hons and B.Sc. (Agbus) major, Minor in Field Crop Production

The Field Crop Production minor is an approved minor area of specialization in the B.S.A. degree. It is being added as an approved minor area of specialization in the B.Sc. (Agbus) Honours and B.Sc. (Agbus) majors degrees. Many students enrolled in the B.Sc. (Agbus) degree work in occupations where some knowledge of agronomy is expected. The approval of Field Crop Production as a minor allows the courses they have taken to be recognized on the academic transcript.

Required: PLSC 222.3 or 201.3, SLSC 240.3, AGRN 382.3 and 9 cu from PLSC 220.3, 234.3, 235.3, 333.3, 335.3, 340.3, 345.3, 401.3, 420.3, SLSC 312.3, BIOL 345.3, AGRN 375.3

B.Sc. RRM, Resource Science major, Minor in Applied Plant Ecology

Applied Plant Ecology is an approved minor area of specialization in the Bachelor of Science in Agriculture degree. It is being added as an approved minor area of specialization for students enrolled in the Resource Science major of the Bachelor of Science in Renewable Resource Management. This will allow students with an interest in this area to have it recognized on the academic transcript.

Requirements: PLSC 213.3, 413.3, EVSC 380.3 and 9 credit units chosen from PLSC 423.3, PLSC 425.3, RRM 215.3, BIOL 323.3, 373.3, 424.3 and SLSC 480.3

B.Sc. RRM, Resource Science major, Minor in Soil Science

Soil Science is an approved minor area of specialization in the Bachelor of Science in Agriculture program. It is being added as an approved minor area of specialization for students enrolled in the Resource Science major of the Bachelor of Science in Renewable Resource Management. When the B.Sc. (RRM) degree was developed, no minor areas of specialization were adopted but courses were approved as restricted electives on the program. This will allow students completing the requirements to have the minor area of specialization recognized on the academic transcript.

Required: SLSC 240.3 or EVSC 220.3, SLSC 232.3, and 12 credit units chosen from EVSC 203.3, 380.3, 420.3, 421.3, RRM 215.3, SLSC 312.3, 313.3, 322.3, 343.3, 460.3, 480.3 or 492.3
The minor consists of 18 credit units in a specialization outside the student's major. At least 12 credit units in the minor must be courses that are not specifically listed as required in the Resource Science major.

Cross College Minor

Soil Science minor area of specialization has been approved to be offered as a cross-college minor. Cross-college minors are approved for receiving colleges by Academic Programs Committee. Requirements: SLSC 240.3 or EVSC 220.3, SLSC 232.3 and 12 credit units chosen from EVSC 203.3, 380.3, 420.3, 421.3, RRM 215.3, SLSC 312.3, 313.3, 322.3, 343.3, 460.3, 480.3, 492.3

Minor Curriculum Revisions

EVSC 421.3 – 1 (3L) Contaminated Site Management and Remediation

This course will focus on how contaminated sites are managed and remediated for new land uses. Students will learn the theory of how sites are investigated and characterized, how toxicological information is used to estimate the risk to humans and ecosystems, how threats to groundwater are assessed and finally, methods by which these risks and threats are mitigated through remediation approaches. This course will provide students with the skill sets necessary to assess, manage and reduce human and ecological risk at a contaminated site.

Prerequisite(s): EVSC 210 or 3 credit units 100-level PHYS, STAT 245 or PLSC 314, and one of EVSC 220, SLSC 240 or RRM 215.

Prerequisite(s) or Corerequisite(s): One of TOX 321, GEOG 386, BLE 481, SLSC 313 or SLSC 322.

Change schedule type from 1 hour lecture and 3 hour lab per week to 3 hour lectures per week.

Rationale: After teaching this course for three years, it is apparent that the learning outcomes associated with the course are not substantially improved in a laboratory format and thus, the resources needed to deliver this course in a laboratory format are not justified.. Rather than detailed toxicological knowledge, RRM and SLSC students need more of an overview of how contaminated sites are managed. Focusing on the four key aspects of site management: characterization, human and ecological toxicity, groundwater assessment, and remediation, will better prepare students to apply their specific scientific knowledge on these issues after graduation. The prerequisite/corequisite requirements have been adjusted to ensure adequate background knowledge for the subject.

COLLEGE OF ARTS AND SCIENCE

The curricular revisions listed below were approved through the Arts & Science College Course and Program Challenge and are now submitted to the University Course Challenge for approval or information

DIVISION OF HUMANITIES & FINE ARTS

Interdisciplinary Centre for Culture and Creativity

New Course

INCC 310.3 1(2L-3P) Cultural Heritage Mapping

An experiential project-based course involving supervised community-based research. Working in close collaboration with community representatives, small interdisciplinary groups will research a community-defined cultural heritage spatial project. A lecture component will teach concepts of cultural heritage and cultural space theory. Heritage mapping methods including oral interviewing, archival research, and digital geodatabase construction are introduced. Student creative work in the form of maps, web displays, and artistic works will be presented to the community for public use. Registration by students from any discipline is encouraged.

Prerequisite(s): Successful completion of 24 Credit Units, Submission of an Application Letter, and Permission of the Instructor

Instructor(s): Keith Carlson, Andrew Dunlop

Rationale: The motives for creating Cultural Heritage Mapping are threefold:

1. The course will provide instruction in heritage space assessment and mapping, an interdisciplinary topic not adequately covered within other programs. It is anticipated that this course will form the introductory foundation to a subsequent advanced course in spatial-historical cultural inquiry. The ICCC provides an ideal interdisciplinary home for this subject.
2. The director of the ICCC has identified a wider community desire to work in partnership with the University in conducting spatial-historical cultural research. The initial offering of Cultural Heritage Mapping will have the support and sponsorship of the City of Saskatoon. Subsequent offerings will develop similar partnerships with rural and northern communities.
3. The Special Advisor to the Provost on Experiential Learning has recommended that a pilot course following an interdisciplinary project-based experiential learning model be created. The interdisciplinary aspect is stressed, and enrolment of students from all colleges and programs will be encouraged. The format of the proposed course has been informed by the suggestions of the Special Advisor, and has the support of the Vice-Provost, Teaching and Learning. The partnership between the College of Arts & Science and the University Learning Centre will further the experiential learning strategic priorities of both units.

Improves offerings in the field, reflects the research interests of the instructors and responds to student demands.

Music

Minor Course Revisions

MUS 303.3 History of Church Music

MUS 364.3 Music of Classical Period

MUS 370.3 Performance Practices I Middle Ages Renaissance Baroque

Prerequisite Change:

Old prerequisite: MUS 240 and 241 or permission of the department.

New prerequisite: MUS 250 or permission of the department.

Rationale: The Department of Music has been undergoing program changes and is subsequently updating prerequisite requirements for affected classes. This prerequisite change is necessary because MUS 240 and MUS 241 have been cancelled, and MUS 250 has been added as a core Music History class in their place.

Philosophy

Minor Program Revision

Philosophy B.A. Honours, Double Honours, 4-year

Add PHIL 433 (Topics in Ethics) to list of Values courses from which students choose to meet this requirement. This list is the same in all 3 programs.

Revision to *Course and Program Catalogue* entry (only revised portion is shown):

Major Requirement (A6):

...

Choose at least 3 credit units from the following:

- [PHIL 262.3](#)
- [PHIL 271.3](#)

- [PHIL 333.3](#)
- **PHIL 433.3**

Rationale: By making PHIL 433.3 (Topics in Ethics) an alternative within the set of values courses which satisfy the senior values requirement, students are provided with more choice, the instructor will be allowed to teach within her area of research more regularly, and course offering will be strengthened. In short, it will be easier for the Department to offer courses which will both allow students to fulfill their requirements and allow instructors to teach advanced ethics. The Philosophy program requirements were reconfigured in Fall 2009. That revision has had the unintentional consequence that it has become difficult to offer PHIL 433 AND offer those values courses (262, 271, 333) that count toward the degree, as only a limited number of seminars and core courses may be offered each year.

DIVISION OF SOCIAL SCIENCES

Aboriginal Public Administration

Minor Program Revision – for information only

Aboriginal Public Administration B.A. Honours, 4-year

Replace deleted IPJP courses with acceptable substitutes in Major Requirement (B6). Only the revised portion of this requirement is shown below.

B6 Major Requirement (57 credit units)

[POLS 204.3](#) [POLS 205.3](#) [POLS 222.3](#) [POLS 225.3](#) [POLS 226.3](#) [POLS 306.3](#) [POLS 322.3](#) [POLS 323.3](#) [POLS 328.3](#) [POLS 422.3](#) [POLS 424.3](#) or [POLS 425.3](#) or any other 3 credit units 400-level POLS approved by the Program Director. ~~IPJP 301.3~~ ~~IPJP 302.3~~ ~~IPJP 402.3~~ ~~IPJP 403.3~~ ~~NS 107.3~~

Choose **12 Credit Units** from the following:

- [NS 261.3 Aboriginal Intellectual and Cultural Traditions in Western Canada](#)
- [NS 340.3 Theory and Aboriginal Societies](#)
- [PHIL 115.3 Introductory Indigenous Philosophy](#)
- [SOC 219.3 Aboriginal Peoples and Justice in Canada](#)
- [Relevant course\(s\) approved by the Program Director](#)

Rationale: The 4 IPJP courses were required elements of the Aboriginal Public Administration program, but have been deleted. These courses have been identified as reasonable substitutes for the content covered in those courses. The Program Director has also been notified that other relevant courses will be soon submitted for approval, so an indication is given to students that other courses may be approved to fulfill this requirement.

Students currently in the program, who have taken some but not all of the IPJP courses, will receive individual advising to determine which of the substitute courses best complement the content they have already covered. The Department of Political Studies and the Undergraduate Student Office, College of Arts & Science are cooperating to contact these students and ensure they receive advising prior to registration for 2012-13.

The Departments of Native Studies, Philosophy and Sociology have been consulted and are all in support of the use of their courses within this program.

Anthropology

New Course

ANTH 244.3 1/2(3L) Political Ecology, Anthropology and Global Environmental Issues

Taking a political ecology approach drawn from anthropology, cross-cultural examples, and other disciplines, the course examines the impact of major 20th. and 21st. Century economic and technological developments upon peoples and environments. The focus is upon indigenous nations, farming, peasant, and other local communities in cross-cultural and global perspective. A core emphasis is on environmental crises (chronic and acute), often associated with asymmetrical power relations, and socio-cultural responses to them, especially in the form of movements of resistance, protest, and reform. Political ecology blends the insights of a unified political economic approach in the social sciences with cultural and human ecologies as well as a mixture of biological and social ecological sciences. The course also explores sustainable futures through this paradigm.

Prerequisite(s): ANTH 111 or ARCH 112 or successful completion of 30 credit units of university study

Note: Students who have taken ANTH 298.3: Political Ecology, Anthropology and Contemporary Environmental Issues may not take this course for credit.

Instructor(s): Alexander M. Ervin

Rationale: This proposed course augments one of the anthropology program's two core concentrations—that of environmental anthropology—medical anthropology is the other. Environmental anthropology is also intended to help bridge anthropology with archaeology within the department. Several instructors—Westman, Natcher, and Ervin-have research programs involving resource developments in Western and Northern Canada with emphases on the impacts upon local communities. Prof. Waldram has had extensive experience in this field from his work in Northern Manitoba and now in Belize adding to the international dimensions of this field. This course supports student training as related to these types of anthropological contributions in global context. The course besides serving majors is meant to widen the contribution of anthropology to public engagement by reaching a larger audience of undergraduates in a wide variety of colleges, enhancing their ecological literacy by focusing on contemporary environmental problems.

The proposed instructor, Alexander Ervin, has been active in this field—co-editing a book on the socio-cultural and environmental impacts of factory farming in Canada, and has two articles in press: one is related to social movements in resistance to nuclear expansion in Western Canada, and the other on the impacts of energy development in the Mackenzie-Athabasca drainage system. He is currently an active member of Green Energy Project---Saskatchewan, which is researching and promoting renewable energy options for Saskatchewan. He has been active with national and local environmental organizations on issues of GMO crops, water, factory farming, and energy with relevance to the socio-cultural factors associated with environmental impacts. The 298.3 experimental version of the course was positively evaluated receiving evaluations of over 4.0 out of 5.0 in all categories. It attracted students from a very wide variety of colleges and departments.

Improves offerings in the field, reflects the research interests of the instructors and responds to student demands.

Political Studies

Minor Course Revisions – Correction to information in November University Course Challenge

POLS 250.3 The Political Sociology of the State and Society

POLS 251.3 The Political Sociology of Political Change

Prerequisite Change:

Correct old prerequisite: 6 credit units 100-level POLS or SOC 110

Correct new prerequisite: POLS 111 and POLS 112; or SOC 111 and SOC 112; or 60 credit units at the university level

Rationale: Students receive appropriate preparation for these courses either through introductory Political Studies or Sociology, or through the equivalent of 2 full years of academic study

Psychology

Minor Course Revisions

PSY 101.3 Learning to Learn Strategies for Academic Success

New Subject Code and Course Number: **INTS 100.3**

Prerequisite Change:

Old prerequisite: Students must be registered in Open Studies or the Arts and Science Transition Program and have completed fewer than 60 credit units.

New prerequisite: Students must have completed fewer than 60 credit units.

Change to Note:

Old Note: PSY 101 may be used as an elective only under Requirement 7 in the College of Arts and Science and may not be used towards any major requirements.

New Note: INTS 100 may be used as an elective only under Requirement 7 in the College of Arts and Science and may not be used towards any major requirements.

Rationale: The proposal to change the designation of PSY 101.3, *Learning to Learn: Strategies for Academic Success* to INTS 100.3 *Learning to Learn: Strategies for Academic Success* is based on the following reasons:

The course is interdisciplinary but the option of an interdisciplinary designation was not available when it was created. The course has been offered as PSY course as a matter of convenience because faculty affiliated with Psychology were involved in creating it. It was originally designed to be offered only to Open Studies and Transition Program students, and has never been offered by the PSY department as a regular A&S course. It does not serve as a prerequisite for any other PSY courses, nor are we requesting that it do so now. In October of 2011 the Department of Psychology agreed wholeheartedly with this proposed change of designation.

Learning to Learn: Strategies for Academic Success is an interdisciplinary course that helps students to better understand the cognitive, social, cultural, and personal foundations of their own learning processes. It helps students to develop effective study, analytical, discussion, group work, and writing skills that will stand them in good stead as they proceed down any academic path, but perhaps more importantly it provides them with an understanding of what underpins those skill sets and how, given their own intellectual and cultural background, they can best deploy them.

The course had limited success in its Open Studies iteration, most likely because the students in the class were not first years and did not necessarily need, or think they need, the insights and skill sets that the course offers. In the Arts & Science Transition Program (Royal West), by

contrast, the course has proven popular and highly effective in helping first years to improve their chances of success at university -- so much so that the course, re-designated as INTS 100.3, will be a requirement for all Transition students as of September 2012.

As set forth in the Third Integrated Plan of the College of Arts and Science, the Transition Program in conjunction with the existing Early Start Program will offer INTS 100.3 in four designated Saskatoon area high schools, starting in September 2012. This is a pilot project that we expect will lead to an expansion of INTS 100.3 into other schools in the city and eventually around the province, including regional colleges and schools on reserves. School administrators and guidance counsellors are enthusiastic about this outreach initiative, and we believe that it will prove popular with students. Our intention is to attract not just those Grade 12 students who already know they will be attending university, but also those who are not yet sure if university is for them.

INTS 100.3 will count towards an Arts and Science degree as a 3cu junior elective and be taught in the schools on a cost-recovery basis by sessional lecturers drawn from any discipline in the College. Instructors chosen on a competitive basis will learn, in a comprehensive workshop designed and delivered in consultation with the Gwenna Moss Centre for Teaching Effectiveness, how to integrate their own disciplinary perspectives with the core content modules and prescribed learning outcomes of the course. These instructors will gain teaching experience and pedagogical insights of value in any academic field.

Here the re-designation of the course is critical, for two practical reasons. First, if the course proves as popular as we expect we could quickly face a shortage of instructors trained in psychology. Second, an interdisciplinary designation will make the course more attractive to instructors in other disciplines, who can more easily explain and benefit from having an interdisciplinary course on their curriculum vitae than a course in an unrelated discipline.

PSY 380.3 Issues in Traditional Health and Healing – Item for information only

New title: **Culture and the Therapeutic Process**

New course description: Exposes the student to critical scholarly perspectives on the role of culture in understanding the form, content and efficacy of various forms of therapy found in the global community. The course explores both mainstream as well as “traditional,” alternative and complimentary approaches.

Course Split – Item for information only

PSY 110.6 General Psychology

Course is split into PSY 120.3 and PSY 121.3

Rationale: Existing course content of Psychology 110.6 will be offered in two 3 credit unit courses, to increase flexibility for student timetabling and course selection.

PSY 120.3 1/2(3L) Biological and Cognitive Bases of Psychology

This course is designed to familiarize the student with the body of knowledge, scientific theory, and research related to the major biological and cognitive areas of psychology. The course focuses on the study of behavior dealing with the essential problems of psychology, the methods of investigation, and the advances that have been made in the fields of neuroscience, sensation and perception, consciousness, memory, learning, language, and motivation and emotion.

Note: Students with credit for PSY 110.6 may not take PSY 120 for credit.

Instructor(s): Psychology faculty

AND

PYS 121.3 1/2(3L) Social Clinical Cultural and Developmental Bases of Psychology

This course is designed to familiarize the student with the body of knowledge, scientific theory, and research related to the major social, clinical, cultural and developmental areas of psychology. The course focuses on the study of behavior dealing with the essential problems of psychology, the methods of investigation, and the advances that have been made in the fields of intelligence, development, personality, social and cultural psychology, psychological disorders, treatment, and health, stress, and coping.

Note: Students with credit for PSY 110.6 may not take PSY 121 for credit.

Instructor(s): Psychology faculty

DIVISION OF SCIENCE**Physics and Engineering Physics**

These changes result from the deletion of EP 225, EP 229 and PHYS 251, approved by University Council as part of the changes to the Engineering Physics program at the January, 2012 Council meeting. These changes record the addition or substitution of approved equivalent courses, or the removal of the deleted course(s).

Minor Course Revisions – for information only**ASTR 310 Galactic Astronomy and Cosmography**

Prerequisite change:

Old prerequisite: ASTR 103 or 213 or 214; PHYS 251 or 252; MATH 224 or 226 or 238.

New prerequisite: ASTR 103 or 213 or 214; PHYS 252; MATH 224 or 226 or 238.

Rationale: PHYS 251 has been replaced by PHYS 252.

ASTR 312 Theoretical Models of Stars and Stellar Evolution

Prerequisite change:

Old prerequisite: ASTR 103 or 213 or 214; PHYS 251 or 252; MATH 224 or 226 or 238.

New prerequisite: ASTR 103 or 213 or 214; PHYS 252; MATH 224 or 226 or 238.

Rationale: PHYS 251 has been replaced by PHYS 252.

ASTR 320 Astronomy of Solar System

Prerequisite change:

Old prerequisite: ASTR 103 or 213 or 214; PHYS 251 or 252; MATH 224 or 226 or 238.

New prerequisite: ASTR 103 or 213 or 214; PHYS 252; MATH 224 or 226 or 238.

Rationale: PHYS 251 has been replaced by PHYS 252.

ASTR 411 Gravitation and Cosmology

Prerequisite change:

Old prerequisite: PHYS 251 or 252; MATH 338.

New prerequisite: PHYS 252; MATH 338.

Rationale: PHYS 251 has been replaced by PHYS 252.

EP 271 Heat Kinetic Theory and Thermodynamics

Prerequisite change:

Old prerequisite: PHYS 251.

New prerequisite: PHYS 252.

Rationale: PHYS 251 has been replaced by PHYS 252.

EP 311 Electronics I

Prerequisite change:

Old prerequisite: (EP 228 or MATH 264 or MATH 266) and EP 229.

New prerequisite: (EP 228 or MATH 264 or MATH 266) and EE 202.

Rationale: EP 229 has been replaced by EE 202.

EP 320 Discrete Linear Systems and Applied Information Theory

Prerequisite change:

Old prerequisite: EP 228 and EP 229 and MATH 224.

New prerequisite: EE 202 and EP 228 and MATH 224.

Rationale: EP 229 has been replaced by EE 202.

EP 421.3 Optical Systems and Materials I

Prerequisite change:

Old prerequisite: EP 225 and PHYS 356.

New prerequisite: EP 325 and PHYS 356

Rationale: EP 225 has been replaced by EP 325

PHYS 356.3 Intermediate Electromagnetism

Prerequisite change:

Old prerequisite: PHYS 229 or EP 229 or PHYS 230.

New prerequisite: EE 202 or PHYS 230.

Rationale: EP 229 has been replaced by EE 202. (PHYS 229 was previously replaced by EP 229).

PHYS 381.3 Quantum Mechanics I

Prerequisite change:

Old prerequisite: PHYS 251; and (PHYS 229 or EP 229).

New prerequisite: PHYS 251; and (EE 202 or PHYS 230)

Rationale: EP 229 has been replaced by equivalent courses EE 202/PHYS 230. (PHYS 229 was previously replaced by EP 229).

PHYS 383.3 Quantum Physics

Prerequisite change:

Old prerequisite: PHYS 251 or PHYS 252

New prerequisite: PHYS 252.

Rationale: PHYS 251 has been replaced by PHYS 252.

COLLEGE OF EDUCATION

Program 2012 was approved as a replacement program by University Council in June, 2010. This program will be implemented as shown in the following detailed program description, which is being listed for information in the February, 2012 University Course Challenge.

Bachelor of Education (B.Ed.) - Program 2012

Candidates admitted to the Bachelor of Education program in the fall of 2012 can choose to 'opt in' to a cohort involved in the first implementation of the renewed Bachelor of Education program - *Program 2012*. Limited space is available during the phase-in of *Program 2012*, opting in will be on a first come first serve basis.

Sequential Elementary Program Requirements

Teacher candidates first complete a minimum of 60 credit units of subject area studies (approximately two years of study) and then apply for admission to the College of Education to complete 60 credit units of professional study (two years of study). Teacher candidates may apply having completed an undergraduate degree.

Teacher candidates intending to become certified to teach children in elementary schools must complete the following prerequisites before applying for admission to the College of Education.

External Courses (60 credit units)

All elementary/middle years option students must complete a minimum of 60 credit units of external course work prior to admission to the College of Education.

Choose **6 Credit Units** from the following: [ENG 110.6](#) [ENG 111.3](#) [ENG 112.3](#) [ENG 113.3](#) [ENG 114.3](#)

Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level MATH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level STAT Courses](#) [COMM 104.3](#) [COMM 207.3](#) [ECON 204.6](#) [EPSE 441.3](#) [GE 210.3](#) [MATH 110.6](#) [PLSC 314.3](#) [PSY 233.3](#) [PSY 234.3](#) [SOC 225.3](#) [SOC 325.3](#)

Choose **6 Credit Units** from the following: 100 to 400-level External Electives

Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#)

Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ECON Courses](#) [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) [GEOG 130.3](#) [GEOG 202.3](#) [GEOG 204.3](#) [GEOG 208.3](#) [GEOG 240.3](#) [GEOG 340.3](#) [GEOG 341.3](#) [GEOG 342.3](#) [GEOG 343.3](#) [GEOG 346.3](#) [GEOG 350.3](#) [GEOG 364.3](#) [GEOG 381.3](#) [GEOG 385.3](#) [GEOG 386.3](#) [GEOG 442.3](#) [GEOG 446.3](#) [GEOG 486.3](#) [GEOG 491.3](#) [GEOG 495.3](#) [CLAS 110.3](#) [CLAS 111.3](#) [CLAS 220.3](#) [CLAS 225.3](#) [CLAS 240.3](#) [CLAS 242.3](#) [CLAS 247.3](#) [CLAS 248.3](#)

Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#) [DRAM 203.3](#) [DRAM 204.3](#) [DRAM 303.3](#) [DRAM 304.3](#) [MUS 111.3](#) [MUS 150.3](#) [MUS 151.3](#) [MUS 250.3](#) [MUS 285.3](#) [MUS 303.3](#) [MUS 311.3](#) [MUS 364.3](#) [MUS 365.3](#) [MUS 367.3](#) [MUS 368.3](#) [MUS 457.3](#) [MUS 463.3](#)

Choose **3 Credit Units** from the following: [KIN 121.3](#) [KIN 122.3](#)

Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ACB Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ASTR Courses](#) [100-Level, 200-Level, 300-Level or 400-Level BIOL Courses](#) [100-Level, 200-Level, 300-Level or 400-Level BMSC Courses](#) [100-Level, 200-Level, 300-Level or 400-Level CHEM Courses](#) [100-Level, 200-Level, 300-Level or 400-Level CMPT Courses](#) [100-Level, 200-Level, 300-Level or 400-Level MCIM Courses](#) [100-Level, 200-Level, 300-Level or 400-Level PHYS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level PLSC Courses](#) [200-Level, 300-Level or 400-Level HSC Courses](#) [GEOG 233.3](#) [GEOG 235.3](#) [GEOG 271.3](#) [GEOG 322.3](#) [GEOG 323.3](#) [GEOG 325.3](#) [GEOG 328.3](#) [GEOG 335.3](#) [GEOG 351.3](#) [GEOG 423.3](#) [GEOG 490.3](#) [GEOL 206.3](#) [GEOL 226.3](#) [GEOL 247.3](#) [GEOL 330.3](#) [GEOL 384.3](#) [GEOL 413.3](#) [GEOL 429.3](#) [GEOL 450.3](#) [GEOL 451.3](#)

Choose 18 credit units from Teaching Area 1

Choose 15 credit units from Teaching Area 2

Education Courses - Year 3

Elementary route teacher candidates must also complete the following professional study components. The following 30 credit units are required: [EDUC 301.3](#) [EDUC 302.3](#) [EDUC 303.3](#) [EDUC 309.3](#) [EDUC 312.3](#) [EDUC 313.3](#) [EDUC 321.3](#) [EDUC 322.3](#)

6 credit units of additional course work

Education Courses - Year 4

The following 30 credit units are required: [EDUC 410.9](#) [EDUC 421.12](#) [EDUC 471.3](#)

6 credit units of additional course work

Sequential Secondary Program Requirements

Teacher candidates first complete a minimum of 60 credit units of subject area studies (approximately two years of study) and then apply for admission to the College of Education to complete 60 credit units of professional study (two years of professional study). Teacher candidates may apply having completed an undergraduate degree. Teacher candidates intending to become certified to teach youth in secondary schools must complete the following prerequisites before applying for admission to the College of Education. External Courses (60 credit units) All secondary option students must complete a minimum of 60 credit units in External course work prior to admission to the College of Education.

Choose **6 Credit Units** from the following: [ENG 110.6](#) [ENG 111.3](#) [ENG 112.3](#) [ENG 113.3](#)

[ENG 114.3](#) Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#)

Choose **12 Credit Units** from the following: 100 to 400 level external electives

Choose 24 credit units from Teaching Area 1

Choose 12 credit units from Teaching Area 2

Education Courses - Year 3

The following 30 credit units are required: [EDUC 301.3](#) [EDUC 302.3](#) [EDUC 303.3](#) [EDUC 311.3](#) [EDUC 314.3](#) [EDUC 315.3](#) [EDUC 321.3](#) [EDUC 322.3](#)

6 credit units of additional course work

Education Courses - Year 4 (30 credit units)

The following 30 credit units are required: [EDUC 410.9](#) [EDUC 421.12](#) [EDUC 471.3](#) 6 credit units of additional course work

Teaching Areas - Elementary

Teacher candidates are required to complete a particular number of credit units in at least two teaching areas (disciplinary fields) that are tightly aligned with Saskatchewan pre-Kindergarten to grade twelve curriculum areas.

Arts Education - Teaching Area 1 (18 credit units)

Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#) [DRAM 203.3](#) [DRAM 204.3](#) [DRAM 303.3](#) [DRAM 304.3](#) [MUS 111.3](#) [MUS 150.3](#) [MUS 151.3](#) [MUS 250.3](#) [MUS 285.3](#) [MUS 303.3](#) [MUS 311.3](#) [MUS 364.3](#) [MUS 365.3](#) [MUS 367.3](#) [MUS 368.3](#) [MUS 457.3](#) [MUS 463.3](#)

Choose **12 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ART Courses](#) [100-Level, 200-Level, 300-Level or 400-Level DRAM Courses](#) [100-Level, 200-Level, 300-Level or 400-Level MUS Courses](#)

Arts Education - Teaching Area 2 (12 credit units)

Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#) [DRAM 203.3](#) [DRAM 204.3](#) [DRAM 303.3](#) [DRAM 304.3](#) [MUS 111.3](#) [MUS 150.3](#) [MUS 151.3](#) [MUS 250.3](#) [MUS 285.3](#) [MUS 303.3](#) [MUS 311.3](#) [MUS 364.3](#) [MUS 365.3](#) [MUS 367.3](#) [MUS 368.3](#) [MUS 457.3](#) [MUS 463.3](#) Choose **9 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ART Courses](#) [100-Level, 200-Level, 300-Level or 400-Level DRAM Courses](#) [100-Level, 200-Level, 300-Level or 400-Level MUS Courses](#)

English Language Arts - Teaching Area 1 (18 credit units)

Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **12 Credit Units** from the following: [200-Level, 300-Level or 400-Level ENG Courses](#)

English Language Arts - Teaching Area 2 (12 credit units) Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **6 Credit Units** from the following: [200-Level, 300-Level or 400-Level ENG Courses](#)

Mathematics - Teaching Area 1 (18 credit units) Choose **6 Credit Units** from the following: [100-Level MATH Courses](#) [100-Level STAT Courses](#) Choose **12 Credit Units** from the following: [200-Level, 300-Level or 400-Level MATH Courses](#) [200-Level, 300-Level or 400-Level STAT Courses](#)

Mathematics - Teaching Area 2 (12 credit units) Choose **6 Credit Units** from the following: [100-Level MATH Courses](#) [100-Level STAT Courses](#) Choose **6 Credit Units** from the following: [200-Level, 300-Level or 400-Level MATH Courses](#) [200-Level, 300-Level or 400-Level STAT Courses](#)

Modern Languages - Teaching Area 1 (18 credit units) French courses required for admission are [FREN 122.3](#), and [FREN 125.3](#) or approved equivalents. Bilingual/immersion students must complete [FREN 128.3](#) and [FREN 218.3](#) or approved equivalents. Any 100 level language course taken after the first six credits of language course(s) will be counted as a senior

course. Choose **6 Credit Units** from the following: [100-Level CREE Courses](#) [100-Level FREN Courses](#) Choose **12 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level CREE Courses](#) [200-Level, 300-Level or 400-Level FREN Courses](#)

Modern Languages - Teaching Area 2 (12 credit units) French courses required for admission are [FREN 122.3](#), and [FREN 125.3](#) or approved equivalents. Bilingual/immersion students must complete [FREN 128.3](#) and [FREN 218.3](#) or approved equivalents. Any 100 level language course taken after the first six credits of language course(s) will be counted as a senior course. Choose **6 Credit Units** from the following: [100-Level CREE Courses](#) [100-Level FREN Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level CREE Courses](#) [200-Level, 300-Level or 400-Level FREN Courses](#)

Physical Education - Teaching Area 1 (18 credit units) Choose **6 Credit Units** from the following: [KIN 121.3](#) [KIN 122.3](#) Choose **12 Credit Units** from the following: KIN 150, [KIN 240.3](#), [KIN 281.3](#) and [KIN 341.3](#) recommended. [200-Level, 300-Level or 400-Level KIN Courses](#)

Physical Education - Teaching Area 2 (12 credit units) Choose **6 Credit Units** from the following: [KIN 121.3](#) [KIN 122.3](#) Choose **6 Credit Units** from the following: KIN 150, [KIN 240.3](#) and [KIN 341.3](#) recommended. [200-Level, 300-Level or 400-Level KIN Courses](#)

Science, General - Teaching Area 1 (18 credit units) Choose **9 Credit Units** from the following: [100-Level ACB Courses](#) [100-Level ASTR Courses](#) [100-Level BMSC Courses](#) [100-Level CHEM Courses](#) [100-Level GEOL Courses](#) [100-Level MCIM Courses](#) [100-Level PHYS Courses](#) [100-Level PLSC Courses](#) [GEOG 120.3](#) Choose **9 Credit Units** from the following: Note: [PLSC 314.3](#) excluded. Any 100 level courses taken after the first 6 credit units will be counted as senior courses. [200-Level, 300-Level or 400-Level ACB Courses](#) [200-Level, 300-Level or 400-Level ASTR Courses](#) [200-Level, 300-Level or 400-Level BIOL Courses](#) [200-Level, 300-Level or 400-Level BMSC Courses](#) [200-Level, 300-Level or 400-Level CHEM Courses](#) [200-Level, 300-Level or 400-Level HSC Courses](#) [200-Level, 300-Level or 400-Level MCIM Courses](#) [200-Level, 300-Level or 400-Level PHYS Courses](#) [200-Level, 300-Level or 400-Level PLSC Courses](#) [GEOG 233.3](#) [GEOG 235.3](#) [GEOG 271.3](#) [GEOG 322.3](#) [GEOG 323.3](#) [GEOG 325.3](#) [GEOG 328.3](#) [GEOG 335.3](#) [GEOG 351.3](#) [GEOG 423.3](#) [GEOG 490.3](#) [GEOE 475.3](#) [GEOL 206.3](#) [GEOL 226.3](#) [GEOL 247.3](#) [GEOL 330.3](#) [GEOL 384.3](#) [GEOL 413.3](#) [GEOL 429.3](#) [GEOL 450.3](#) [GEOL 451.3](#)

Science, General - Teaching Area 2 (12 credit units) Choose **6 Credit Units** from the following: [100-Level ACB Courses](#) [100-Level ASTR Courses](#) [100-Level BIOL Courses](#) [100-Level BMSC Courses](#) [100-Level CHEM Courses](#) [100-Level GEOL Courses](#) [100-Level MCIM Courses](#) [100-Level PHYS Courses](#) [100-Level PLSC Courses](#) [GEOG 120.3](#) Choose **6 Credit Units** from the following: Note: [PLSC 314.3](#) excluded. Any 100-level courses taken after the first 6 credit units will be counted as senior courses. [200-Level, 300-Level or 400-Level ACB Courses](#) [200-Level, 300-Level or 400-Level ASTR Courses](#) [200-Level, 300-Level or 400-Level BIOL Courses](#) [200-Level, 300-Level or 400-Level BMSC Courses](#) [200-Level, 300-Level or 400-Level CHEM Courses](#) [200-Level, 300-Level or 400-Level HSC Courses](#) [200-Level, 300-Level or 400-Level MCIM Courses](#) [200-Level, 300-Level or 400-Level PHYS](#)

Courses 200-Level, 300-Level or 400-Level PLSC Courses [GEOG 233.3](#) [GEOG 235.3](#) [GEOG 271.3](#) [GEOG 322.3](#) [GEOG 323.3](#) [GEOG 325.3](#) [GEOG 328.3](#) [GEOG 335.3](#) [GEOG 351.3](#) [GEOG 423.3](#) [GEOG 490.3](#) [GEOE 475.3](#) [GEOL 206.3](#) [GEOL 226.3](#) [GEOL 247.3](#) [GEOL 329.3](#) [GEOL 330.3](#) [GEOL 384.3](#) [GEOL 413.3](#) [GEOL 429.3](#) [GEOL 450.3](#) [GEOL 451.3](#)

Social Sciences/Social Studies - Teaching Area 1 (18 credit units) **Note:** At least 6 credit units of the total 18 credit units must include Canadian content. HIST courses with Canadian content are: [HIST 151.3](#), [HIST 152.3](#), [HIST 257.3](#), [HIST 258.3](#), [HIST 259.3](#), [HIST 260.3](#), [HIST 263.6](#), [HIST 264.3](#), [HIST 265.3](#), [HIST 266.3](#), [HIST 361.3](#), [HIST 363.3](#), [HIST 364.3](#), [HIST 450.6](#), [HIST 464.6](#), [HIST 466.3](#); ECON course with Canadian content is: [ECON 231.3](#); GEOG courses with Canadian content are: [GEOG 202.3](#), [GEOG 204.3](#), [GEOG 342.3](#), [GEOG 343.3](#), [GEOG 381.3](#), [GEOG 386.3](#), [GEOG 442.3](#); POLS courses with Canadian content are: [POLS 204.3](#), [POLS 205.3](#), [POLS 222.3](#), [POLS 225.3](#), [POLS 226.3](#), [POLS 303.3](#), [POLS 304.3](#), [POLS 305.3](#), [POLS 306.3](#), [POLS 307.3](#), [POLS 322.3](#), [POLS 323.3](#), [POLS 349.3](#), [POLS 375.3](#), [POLS 376.3](#), [POLS 404.3](#), [POLS 405.3](#), [POLS 422.3](#), [POLS 424.3](#), [POLS 425.3](#); SOC courses with Canadian content are: [SOC 203.3](#), [SOC 204.3](#), [SOC 219.3](#), [SOC 227.6](#), [SOC 244.3](#), [SOC 246.3](#), [SOC 319.3](#); NS courses with Canadian content are all except [NS 221.3](#) and [NS 272.3](#). Any 100 level courses taken after the first 6 credit units will be counted as senior courses. Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ANTH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ECON Courses](#) [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level POLS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level RLST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level SOC Courses](#) [100-Level, 200-Level, 300-Level or 400-Level WGST Courses](#) [GEOG 130.3](#) [GEOG 202.3](#) [GEOG 204.3](#) [GEOG 208.3](#) [GEOG 240.3](#) [GEOG 340.3](#) [GEOG 341.3](#) [GEOG 342.3](#) [GEOG 343.3](#) [GEOG 346.3](#) [GEOG 350.3](#) [GEOG 364.3](#) [GEOG 381.3](#) [GEOG 385.3](#) [GEOG 386.3](#) [GEOG 442.3](#) [GEOG 446.3](#) [GEOG 486.3](#) [GEOG 491.3](#) [GEOG 495.3](#) [CLAS 110.3](#) [CLAS 111.3](#) [CLAS 220.3](#) [CLAS 225.3](#) [CLAS 240.3](#) [CLAS 242.3](#) [CLAS 247.3](#) [CLAS 248.3](#)

Social Sciences/Social Studies - Teaching Area 2 (12 credit units) **Note:** At least 6 credit units of the total 12 credit units must include Canadian content. HIST courses with Canadian content are: [HIST 151.3](#), [HIST 152.3](#), [HIST 257.3](#), [HIST 258.3](#), [HIST 259.3](#), [HIST 260.3](#), [HIST 263.6](#), [HIST 264.3](#), [HIST 265.3](#), [HIST 266.3](#), [HIST 361.3](#), [HIST 363.3](#), [HIST 364.3](#), [HIST 450.6](#), [HIST 464.6](#), [HIST 466.3](#); ECON course with Canadian content is: [ECON 231.3](#); GEOG courses with Canadian content are: [GEOG 202.3](#), [GEOG 204.3](#), [GEOG 342.3](#), [GEOG 343.3](#), [GEOG 381.3](#), [GEOG 386.3](#), [GEOG 442.3](#); POLS courses with Canadian content are: [POLS 204.3](#), [POLS 205.3](#), [POLS 222.3](#), [POLS 225.3](#), [POLS 226.3](#), [POLS 303.3](#), [POLS 304.3](#), [POLS 305.3](#), [POLS 306.3](#), [POLS 307.3](#), [POLS 322.3](#), [POLS 323.3](#), [POLS 349.3](#), [POLS 375.3](#), [POLS 376.3](#), [POLS 404.3](#), [POLS 405.3](#), [POLS 422.3](#), [POLS 424.3](#), [POLS 425.3](#); SOC courses with Canadian content are: [SOC 203.3](#), [SOC 204.3](#), [SOC 219.3](#), [SOC 227.6](#), [SOC 244.3](#), [SOC 246.3](#), [SOC 319.3](#); NS courses with Canadian content are all except [NS 221.3](#) and [NS 272.3](#). Any 100 level courses taken after the first 6 credit units will be counted as senior courses. Choose **3 Credit**

Units from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#)
 Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ANTH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ECON Courses](#) [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level POLS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level RLST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level SOC Courses](#) [100-Level, 200-Level, 300-Level or 400-Level WGST Courses](#) [GEOG 130.3](#) [GEOG 202.3](#) [GEOG 204.3](#) [GEOG 208.3](#) [GEOG 240.3](#) [GEOG 340.3](#) [GEOG 341.3](#) [GEOG 342.3](#) [GEOG 343.3](#) [GEOG 346.3](#) [GEOG 350.3](#) [GEOG 364.3](#) [GEOG 381.3](#) [GEOG 385.3](#) [GEOG 386.3](#) [GEOG 442.3](#) [GEOG 446.3](#) [GEOG 486.3](#) [GEOG 491.3](#) [GEOG 495.3](#) [CLAS 110.3](#) [CLAS 111.3](#) [CLAS 220.3](#) [CLAS 225.3](#) [CLAS 240.3](#) [CLAS 242.3](#) [CLAS 247.3](#) [CLAS 248.3](#)

Teaching Areas - Secondary

Teacher candidates are required to complete a particular number of credit units in at least two teaching areas (disciplinary fields) that are tightly aligned with Saskatchewan pre-Kindergarten to grade twelve curriculum areas.

Arts Education, Drama - Teaching Area 1 (24 credit units)

Choose **24 Credit Units** from the following: Any 100-level Drama course taken after the first six credit units of Science course(s) will be counted as a senior course. [100-Level, 200-Level, 300-Level or 400-Level DRAM Courses](#)

Arts Education, Drama - Teaching Area 2 (15 credit units) Choose **15 Credit Units** from the following: Any 100-level Drama course taken after the first six credit units of Science course(s) will be counted as a senior course. [100-Level, 200-Level, 300-Level or 400-Level DRAM Courses](#)

Arts Education, Visual Arts - Teaching Area 1 (24 credit units) Note: Any 100-level courses taken after the first 6 credit unit's will be counted as senior courses. Choose **6 Credit Units** from the following: Must include 2 different areas within ART. [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#) Choose **18 Credit Units** from the following: Must include 2 different areas within ART. [100-Level, 200-Level, 300-Level or 400-Level ART Courses](#)

Arts Education, Visual Arts - Teaching Area 2 (15 credit units) Note: Any 100-level courses taken after the first 6 credit unit's will be counted as senior courses. Choose **6 Credit Units** from the following: Must include 2 different areas within ART. [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#) Choose **9 Credit Units** from the following: Must include 2 different areas within ART. [100-Level, 200-Level, 300-Level or 400-Level ART Courses](#)

English Language Arts - Teaching Area 1 (24 credit units) Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **18 Credit Units** from the following: [200-Level, 300-Level or 400-Level ENG Courses](#)

English Language Arts - Teaching Area 2 (15 credit units) Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **9 Credit Units** from the following: [200-Level, 300-Level or 400-Level ENG Courses](#)

Mathematics - Teaching Area 1 (24 credit units) Choose **6 Credit Units** from the following: [100-Level MATH Courses](#) [100-Level STAT Courses](#) Choose **18 Credit Units** from the following: [200-Level, 300-Level or 400-Level MATH Courses](#) [200-Level, 300-Level or 400-Level STAT Courses](#)

Mathematics - Teaching Area 2 (15 credit units) Choose **6 Credit Units** from the following: [100-Level MATH Courses](#) [100-Level STAT Courses](#) Choose **9 Credit Units** from the following: [200-Level, 300-Level or 400-Level MATH Courses](#) [200-Level, 300-Level or 400-Level STAT Courses](#) Modern Languages - Teaching Area 1 (24 credit units) French courses required for admission are [FREN 122.3](#), and [FREN 125.3](#) or approved equivalents. Bilingual/immersion students must complete [FREN 128.3](#) and [FREN 218.3](#) or approved equivalents. Choose **6 Credit Units** from the following: [100-Level CREE Courses](#) [100-Level FREN Courses](#) Choose **18 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level CREE Courses](#) [200-Level, 300-Level or 400-Level FREN Courses](#)

Modern Languages - Teaching Area 2 (15 credit units) French courses required for admission are [FREN 122.3](#), and [FREN 125.3](#) or approved equivalents. Bilingual/immersion students must complete [FREN 128.3](#) and [FREN 218.3](#) or approved equivalents. Choose **6 Credit Units** from the following: [100-Level CREE Courses](#) [100-Level FREN Courses](#) Choose **9 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level CREE Courses](#) [200-Level, 300-Level or 400-Level FREN Courses](#)

Physical Education - Teaching Area 1 & 2 To become a secondary physical education teacher, contact the College of Kinesiology for details on the 5-year combined B.Sc.(Kin.)/B.Ed. program. People who have a B.Sc. in Kinesiology can apply to the sequential program.

Science, Biology - Teaching Area 1 (24 credit units) Choose **6 Credit Units** from the following: [100-Level BIOL Courses](#) Choose **9 Credit Units** from the following: [BIOL 222.3](#) [BIOL 224.3/BMSC 224.3](#) [BIOL 228.3](#) [BIOL 301.3](#) [BIOL 302.3](#) [BIOL 312.3](#) [BIOL 318.3](#) [BIOL 324.3](#) [BIOL 325.3](#) [BIOL 326.3](#) [BIOL 361.3](#) [BIOL 365.3](#) [BIOL 410.3](#) [BIOL 412.3](#) [BIOL 424.3](#) [BIOL 436.3](#) [BIOL 451.3](#) [BIOL 455.3](#) [BIOL 458.3](#) [BIOL 466.3](#) [BIOL 470.3](#) [BIOL 475.3](#) [BIOL 480.3](#) [BIOL 481.6](#) [PLSC 41.6](#) [PLSC 213.3](#) [PLSC 220.3](#) [PLSC 234.3](#) [PLSC 235.3](#) [PLSC 413.3](#) [PLSC 422.3](#) [PLSC 425.3](#) [PLSC 433.3](#) Choose **9 Credit Units** from the following: [200-Level, 300-Level or 400-Level BIOL Courses](#) [200-Level, 300-Level or 400-Level BMSC Courses](#) [200-Level, 300-Level or 400-Level HSC Courses](#) [200-Level, 300-Level or 400-Level ACB Courses](#)

Science, Biology - Teaching Area 2 (15 credit units) Choose **6 Credit Units** from the following: [100-Level BIOL Courses](#) Choose **6 Credit Units** from the following: [BIOL 222.3](#) [BIOL 224.3/BMSC 224.3](#) [BIOL 228.3](#) [BIOL 301.3](#) [BIOL 302.3](#) [BIOL 312.3](#) [BIOL 318.3](#) [BIOL 324.3](#) [BIOL 325.3](#) [BIOL 326.3](#) [BIOL 350.3](#) [BIOL 361.3](#) [BIOL 365.3](#) [BIOL 373.3](#) [BIOL 410.3](#) [BIOL 412.3](#) [BIOL 424.3](#) [BIOL 436.3](#) [BIOL 451.3](#) [BIOL 455.3](#) [BIOL](#)

[458.3](#) [BIOL 466.3](#) [BIOL 470.3](#) [BIOL 475.3](#) [BIOL 480.3](#) [BIOL 481.6](#) [PLSC 41.6](#) [PLSC 213.3](#) [PLSC 220.3](#) [PLSC 234.3](#) [PLSC 235.3](#) [PLSC 413.3](#) [PLSC 422.3](#) [PLSC 423.3](#) [PLSC 425.3](#) [PLSC 433.3](#) Choose **3 Credit Units** from the following: [200-Level, 300-Level or 400-Level ACB Courses](#) [200-Level, 300-Level or 400-Level BIOL Courses](#) [200-Level, 300-Level or 400-Level MCIM Courses](#) [200-Level, 300-Level or 400-Level BMSC Courses](#) [200-Level, 300-Level or 400-Level HSC Courses](#)

Science, Chemistry - Teaching Area 1 (24 credit units) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level CHEM Courses](#) Choose **18 Credit Units** from the following: A course in Analytical Chemistry or Inorganic Chemistry is recommended. [200-Level, 300-Level or 400-Level CHEM Courses](#) [200-Level, 300-Level or 400-Level BMSC Courses](#)

Science, Chemistry - Teaching Area 2 (15 credit units) Choose **6 Credit Units** from the following: [100-Level CHEM Courses](#) Choose **9 Credit Units** from the following: A course in Analytical Chemistry or Inorganic Chemistry is recommended. [200-Level, 300-Level or 400-Level CHEM Courses](#) [200-Level, 300-Level or 400-Level BMSC Courses](#)

Science, Physics - Teaching Area 1 (24 credit units) Choose **6 Credit Units** from the following: [100-Level PHYS Courses](#) Choose **18 Credit Units** from the following: [200-Level, 300-Level or 400-Level PHYS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ASTR Courses](#)

Science, Physics - Teaching Area 2 (15 credit units) Choose **6 Credit Units** from the following: [100-Level PHYS Courses](#) Choose **9 Credit Units** from the following: [200-Level, 300-Level or 400-Level PHYS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ASTR Courses](#)

Social Sciences/Social Studies - Teaching Area 1 (24 credit units) **Note:** At least 6 credit units of the total 24 credit units must include Canadian content. HIST courses with Canadian content are: [HIST 151.3](#), [HIST 152.3](#), [HIST 257.3](#), [HIST 258.3](#), [HIST 259.3](#), [HIST 260.3](#), [HIST 263.6](#), [HIST 264.3](#), [HIST 265.3](#), [HIST 266.3](#), [HIST 361.3](#), [HIST 363.3](#), [HIST 364.3](#), [HIST 450.6](#), [HIST 464.6](#), [HIST 466.3](#); ECON course with Canadian content is: [ECON 231.3](#); GEOG courses with Canadian content are: [GEOG 202.3](#), [GEOG 204.3](#), [GEOG 342.3](#), [GEOG 343.3](#), [GEOG 381.3](#), [GEOG 386.3](#), [GEOG 442.3](#); POLS courses with Canadian content are: [POLS 204.3](#), [POLS 205.3](#), [POLS 222.3](#), [POLS 225.3](#), [POLS 226.3](#), [POLS 303.3](#), [POLS 304.3](#), [POLS 305.3](#), [POLS 306.3](#), [POLS 307.3](#), [POLS 322.3](#), [POLS 323.3](#), [POLS 349.3](#), [POLS 375.3](#), [POLS 376.3](#), [POLS 404.3](#), [POLS 405.3](#), [POLS 422.3](#), [POLS 424.3](#), [POLS 425.3](#); SOC courses with Canadian content are: [SOC 203.3](#), [SOC 204.3](#), [SOC 219.3](#), [SOC 227.6](#), [SOC 244.3](#), [SOC 246.3](#), [SOC 319.3](#); NS courses with Canadian content are all except [NS 221.3](#) and [NS 272.3](#). Any 100 level courses taken after the first 6 credit units will be counted as senior courses. Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) Choose **12 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ANTH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ECON Courses](#) [200-Level, 300-Level or 400-Level HIST Courses](#) [100-Level, 200-Level, 300-Level or 400-](#)

[Level NS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level RLST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level SOC Courses](#) [100-Level, 200-Level, 300-Level or 400-Level POLS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level WGST Courses](#) [GEOG 130.3](#) [GEOG 202.3](#) [GEOG 204.3](#) [GEOG 208.3](#) [GEOG 240.3](#) [GEOG 340.3](#) [GEOG 341.3](#) [GEOG 342.3](#) [GEOG 343.3](#) [GEOG 346.3](#) [GEOG 350.3](#) [GEOG 364.3](#) [GEOG 381.3](#) [GEOG 385.3](#) [GEOG 386.3](#) [GEOG 442.3](#) [GEOG 446.3](#) [GEOG 486.3](#) [GEOG 491.3](#) [GEOG 495.3](#) [CLAS 110.3](#) [CLAS 111.3](#) [CLAS 220.3](#) [CLAS 225.3](#) [CLAS 240.3](#) [CLAS 242.3](#) [CLAS 247.3](#) [CLAS 248.3](#)

Social Sciences/Social Studies - Teaching Area 2 (15 credit units) **Note:** At least 6 credit units of the total 15 credit units must include Canadian content. HIST courses with Canadian content are: [HIST 151.3](#), [HIST 152.3](#), [HIST 257.3](#), [HIST 258.3](#), [HIST 259.3](#), [HIST 260.3](#), [HIST 263.6](#), [HIST 264.3](#), [HIST 265.3](#), [HIST 266.3](#), [HIST 361.3](#), [HIST 363.3](#), [HIST 364.3](#), [HIST 450.6](#), [HIST 464.6](#), [HIST 466.3](#); ECON course with Canadian content is: [ECON 231.3](#); GEOG courses with Canadian content are: [GEOG 202.3](#), [GEOG 204.3](#), [GEOG 342.3](#), [GEOG 343.3](#), [GEOG 381.3](#), [GEOG 386.3](#), [GEOG 442.3](#); POLS courses with Canadian content are: [POLS 204.3](#), [POLS 205.3](#), [POLS 222.3](#), [POLS 225.3](#), [POLS 226.3](#), [POLS 303.3](#), [POLS 304.3](#), [POLS 305.3](#), [POLS 306.3](#), [POLS 307.3](#), [POLS 322.3](#), [POLS 323.3](#), [POLS 349.3](#), [POLS 375.3](#), [POLS 376.3](#), [POLS 404.3](#), [POLS 405.3](#), [POLS 422.3](#), [POLS 424.3](#), [POLS 425.3](#); SOC courses with Canadian content are: [SOC 203.3](#), [SOC 204.3](#), [SOC 219.3](#), [SOC 227.6](#), [SOC 244.3](#), [SOC 246.3](#), [SOC 319.3](#); NS courses with Canadian content are all except [NS 221.3](#) and [NS 272.3](#). Any 100 level courses taken after the first 6 credit units will be counted as senior courses. Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ANTH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ECON Courses](#) [200-Level, 300-Level or 400-Level HIST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level POLS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level RLST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level SOC Courses](#) [100-Level, 200-Level, 300-Level or 400-Level WGST Courses](#) [GEOG 130.3](#) [GEOG 202.3](#) [GEOG 204.3](#) [GEOG 208.3](#) [GEOG 240.3](#) [GEOG 340.3](#) [GEOG 341.3](#) [GEOG 342.3](#) [GEOG 343.3](#) [GEOG 346.3](#) [GEOG 350.3](#) [GEOG 364.3](#) [GEOG 381.3](#) [GEOG 385.3](#) [GEOG 386.3](#) [GEOG 442.3](#) [GEOG 446.3](#) [GEOG 486.3](#) [GEOG 491.3](#) [GEOG 495.3](#) [CLAS 110.3](#) [CLAS 111.3](#) [CLAS 220.3](#) [CLAS 225.3](#) [CLAS 240.3](#) [CLAS 242.3](#) [CLAS 247.3](#) [CLAS 248.3](#)

Music Education

Students interested in teaching music must contact the Department of Music for information on the Bachelor of Music degree in Music Education (B.Mus. (Mus. Ed.)). Upon completion of the four year B.Mus.(Mus.Ed.) program students may choose to complete the Bachelor of Education (B.Ed.) degree. Students who successfully complete the B.Mus.(Mus.Ed.) program will be automatically accepted into the College of Education. The full program comprises six years of study: four years in the B.Mus.(Mus.Ed.) program followed by two years in the B.Ed. program. For detailed information about the Bachelor of Education degree please see the Education section of the Course and Program Catalogue. Scholarships and financial aid available to music students ... Students interested in teaching music must contact the Department of Music for

information on the Bachelor of Music degree in Music Education (B.Mus.(Mus.Ed.)). Upon completion of the four year B.Mus.(Mus.Ed.) program students may choose to complete the Bachelor of Education (B.Ed.) degree. Students who successfully complete the B.Mus.(Mus.Ed.) program will be automatically accepted into the College of Education. The full program comprises six years of study: four years in the B.Mus.(Mus.Ed.) program followed by two years in the B.Ed. program.

Bachelor of Music (Music Education) (B.Mus.(Mus.Ed.)) - Elementary/Middle Years

G1 Academic Courses (33 credit units) [NS 107.3](#) [KIN 121.3](#) Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level MATH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level STAT Courses](#) [COMM 104.3](#) [COMM 207.3](#) [ECON 204.6](#) [EPSE 441.3](#) [GE 210.3](#) [PLSC 314.3](#) [PSY 233.3](#) [PSY 234.3](#) [SOC 225.3](#) [SOC 325.3](#) Choose **3 Credit Units** from the following: Natural Sciences [ASTR 102.3](#) [ASTR 103.3](#) [BIOL 107.6](#) [BIOL 120.3](#) [BIOL 121.3](#) [CHEM 112.3](#) [CHEM 115.3](#) [CMPT 100.3](#) [CMPT 102.3](#) [CMPT 105.3](#) [CMPT 106.3](#) [CMPT 111.3](#) [CMPT 115.3](#) [GEOG 120.3](#) [GEOG 125.3](#) [GEOL 108.3](#) [GEOL 109.3](#) [GEOL 121.3](#) [GEOL 122.3](#) [MATH 104.3](#) [MATH 110.3](#) [MATH 112.3](#) or [MATH 116.3](#) [MATH 121.3](#) [MATH 125.3](#) [MATH 128.3](#) [PHYS 115.3](#) [PHYS 117.3](#) or [PHYS 125.3](#) [PHYS 127.3](#) or [PHYS 128.3](#) [STAT 103.3](#) Any senior-level natural science course provided that the prerequisite is met and not more than 6 credit units in one subject are used for the Natural Science Requirement Students may use only 6 credit units in mathematics and statistics towards the Natural Science Requirement [STAT 244.3](#) may not be used to meet the Natural Science Requirement in Program Types A, B or D

Choose 12 Credit Units from a subject that is chosen to be Teaching Area II. It is recommended that students contact the Undergraduate Student Office for advice on choosing courses for this teaching area. Notes: a) If English is chosen as Teaching Area II, only 6 additional credit units in English are required, plus 6 credit units of any course approved for credit in Arts & Science. b) If Native Studies is chosen as Teaching Area II, only 9 additional units of Native Studies (or other courses listed on Teaching Area requirements) are required, plus 3 credit units of any course approved for credit in Arts & Science. c) If Social Studies is chosen as Teaching Area II, only 9 additional units of Social Studies (or other courses listed on the Teaching Area requirements) are required, plus 3 credit units of any course approved for credit in Arts & Science.

Choose **3 Credit Units** from the following: any course approved for credit in Arts & Science

(G1 Teaching Area 2) - Arts Education 12 credit units Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#) [DRAM 203.3](#) [DRAM 204.3](#) [DRAM 303.3](#) [DRAM 304.3](#) Choose **9 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ART Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level DRAM Courses](#)

(G1 Teaching Area 2) - English Language Arts 12 credit units Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **6 Credit Units** from the following: [200-Level, 300-Level or 400-Level ENG Courses](#)

(G1 Teaching Area 2) - Mathematics 12 credit units Choose **6 Credit Units** from the following: [100-Level MATH Courses](#) [100-Level STAT Courses](#) Choose **6 Credit Units** from the following: [200-Level, 300-Level or 400-Level MATH Courses](#) [200-Level, 300-Level](#)

or [400-Level STAT Courses](#) [COMM 104.3](#) [COMM 207.3](#) [ECON 204.6](#) [EPSE 441.3](#) [GE 210.3](#) [PLSC 314.3](#) [PSY 233.3](#) [PSY 234.3](#) [SOC 225.3](#) [SOC 325.3](#)

(G1 Teaching Area 2) - Modern Languages 12 credit units Choose **6 Credit Units** from the following: Bilingual/immersion students must complete [FREN 128.3](#) and [FREN 218.3](#) or approved equivalents. [100-Level CREE Courses](#) ([FREN 122.3](#) and [FREN 125.3](#)) or ([FREN 128.3](#) and [FREN 218.3](#)) Choose **6 Credit Units** from the following:

[100-Level, 200-Level, 300-Level or 400-Level CREE Courses](#) [200-Level, 300-Level or 400-Level FREN Courses](#)

(G1 Teaching Area 2) - Physical Education Students interested in choosing Physical Education as their Teaching Area 2 must consult an advisor in the Undergraduate Student Office. A minimum of 6 credit units will be required above the 126 credit units required for the Bachelor of Music (Music Education) degree. 12 credit units

(G1 Teaching Area 2) - Science, General 12 credit units Choose **6 Credit Units** from the following: [100-Level ASTR Courses](#) [100-Level BIOL Courses](#) [100-Level CHEM Courses](#)

[100-Level GEOL Courses](#) [100-Level PHYS Courses](#) [GEOG 120.3](#) Choose **6 Credit Units** from the following: [PLSC 314.3](#) excluded. [200-Level, 300-Level or 400-Level ACB Courses](#) [200-Level, 300-Level or 400-Level ASTR Courses](#) [200-Level, 300-Level or 400-Level BIOL Courses](#) [200-Level, 300-Level or 400-Level BMSC Courses](#) [200-Level, 300-Level or 400-Level CHEM Courses](#) [200-Level, 300-Level or 400-Level HSC Courses](#) [200-Level, 300-Level or 400-Level MCIM Courses](#) [200-Level, 300-Level or 400-Level PHYS Courses](#) [GEOG 233.3](#) [GEOG 235.3](#) [GEOG 271.3](#) [GEOG 280.3](#) [GEOG 322.3](#) [GEOG 323.3](#) [GEOG 325.3](#) [GEOG 328.3](#) [GEOG 335.3](#) [GEOG 351.3](#) [GEOG 423.3](#) [GEOG 490.3](#) [GEOL 206.3](#) [GEOL 226.3](#) [GEOL 247.3](#) [GEOL 329.3](#) [GEOL 330.3](#) [GEOL 384.3](#) [GEOL 413.3](#) [GEOL 429.3](#) [GEOL 450.3](#) [GEOL 451.3](#) [PLSC 213.3](#) [PLSC 240.3](#) [PLSC 301.3](#) [PLSC 345.3](#) [PLSC 405.3](#) [PLSC 411.3](#) [PLSC 412.3](#) [PLSC 416.3](#) [PLSC 417.3](#) [PLSC 420.3](#) [PLSC 422.3](#) [PLSC 423.3](#) [PLSC 425.3](#) [PLSC 432.3](#) [PLSC 461.3](#)

(G1 Teaching Area 2) - Social Sciences/Social Studies **Note:** At least 6 credit units of the total 12 credit units must include Canadian content. HIST courses with Canadian content are: [HIST 151.3](#), [HIST 152.3](#), [HIST 257.3](#), [HIST 258.3](#), [HIST 259.3](#), [HIST 260.3](#), [HIST 263.6](#), [HIST 264.3](#), [HIST 265.3](#), [HIST 266.3](#), [HIST 361.3](#), [HIST 363.3](#), [HIST 364.3](#), [HIST 450.6](#), [HIST 464.6](#), [HIST 466.3](#); ECON course with Canadian content is: [ECON 231.3](#); GEOG courses with Canadian content are: [GEOG 202.3](#), [GEOG 204.3](#), [GEOG 342.3](#), [GEOG 343.3](#), [GEOG 381.3](#), [GEOG 386.3](#), [GEOG 442.3](#); POLS courses with Canadian content are: [POLS 204.3](#), [POLS 205.3](#), [POLS 222.3](#), [POLS 225.3](#), [POLS 226.3](#), [POLS 303.3](#), [POLS 304.3](#), [POLS 305.3](#), [POLS 306.3](#), [POLS 307.3](#), [POLS 322.3](#), [POLS 323.3](#), [POLS 349.3](#), [POLS 375.3](#), [POLS 376.3](#), [POLS 404.3](#), [POLS 405.3](#), [POLS 422.3](#), [POLS 424.3](#), [POLS 425.3](#); SOC courses with Canadian content are: [SOC 203.3](#), [SOC 204.3](#), [SOC 219.3](#), [SOC 227.6](#), [SOC 244.3](#), [SOC 246.3](#), [SOC 319.3](#); NS courses with Canadian content are all except [NS 221.3](#) and [NS 272.3](#). **12 credit units** Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ANTH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ECON Courses](#) [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level RLST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level POLS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level RLST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level SOC Courses](#) [100-Level, 200-Level, 300-Level or 400-Level WGST Courses](#) [GEOG 130.3](#)

[GEOG 202.3](#) [GEOG 204.3](#) [GEOG 208.3](#) [GEOG 240.3](#) [GEOG 280.3](#) [GEOG 340.3](#) [GEOG 341.3](#) [GEOG 342.3](#) [GEOG 343.3](#) [GEOG 346.3](#) [GEOG 350.3](#) [GEOG 364.3](#) [GEOG 381.3](#) [GEOG 385.3](#) [GEOG 386.3](#) [GEOG 442.3](#) [GEOG 446.3](#) [GEOG 486.3](#) [GEOG 491.3](#) [GEOG 495.3](#) [CLAS 110.3](#) [CLAS 111.3](#) [CLAS 220.3](#) [CLAS 225.3](#) [CLAS 240.3](#) [CLAS 242.3](#) [CLAS 247.3](#) [CLAS 248.3](#)

G2 Music (41 credit units) [MUS 160.0](#) [MUS 120.2](#) [MUS 121.2](#) [MUS 133.3](#) [MUS 134.3](#) [MUS 150.3](#) [MUS 151.3](#) [MUS 220.2](#) [MUS 221.2](#) [MUS 233.3](#) [MUS 234.3](#) [MUS 250.3](#) [MUS 325.3](#) [MUS 428.3](#) Music Theory or Music Elective Choose **6 Credit Units** from the following: [MUS 303.3](#) [MUS 311.3](#) [MUS 346.3](#) [MUS 347.3](#) [MUS 361.3](#) [MUS 362.3](#) [MUS 363.3](#) [MUS 364.3](#) [MUS 365.3](#) [MUS 367.3](#) [MUS 368.3](#) [MUS 447.3](#) [MUS 450.3](#) [MUS 457.3](#) [MUS 464.3](#) [MUS 465.3](#) [MUS 472.3](#)

G3 Applied Music (24 credit units) [MUAP 143.3](#) [MUAP 145.3](#) [MUAP 243.3](#) [MUAP 245.3](#) [MUAP 343.3](#) [MUAP 345.3](#) [MUAP 443.3](#) [MUAP 445.3](#)

G4 Applied Music Ensemble (4 credit units) Choose **4 Credit Units** from the following: These courses may be taken more than once for credit. Students must complete at least one of these ensembles each year. [MUAP 201.1](#) [MUAP 202.1](#) [MUAP 203.1](#) [MUAP 204.1](#) [MUAP 205.1](#)

G5 Music Recitals [MUS 129.0](#) [MUS 229.0](#) [MUS 329.0](#) [MUS 429.0](#)

G6 Music Education (24 credit units) [EMUS 238.3](#) [EMUS 431.3](#) [EMUS 490.3](#) Choose **9 Credit Units** from the following: [EMUS 270.3](#) [EMUS 311.3](#) [EMUS 313.3](#) [EMUS 330.3](#) [EMUS 333.3](#) [EMUS 337.3](#) [EMUS 339.3](#) [EMUS 438.3](#) [EMUS 442.3](#) [EMUS 448.3](#) Choose **6 Credit Units** from the above list, from any MUS course or from [MUAP 201.1](#) - [MUAP 210.1](#)

G7 Student Teaching [EDST 130.0](#) [EDST 230.0](#) [EDST 330.0](#)

Bachelor of Music (Music Education) (B.Mus.(Mus.Ed.)) - Secondary

G1 Academic Courses (30 credit units) [NS 107.3](#) Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **3 Credit Units** from the following: Natural Sciences [ASTR 102.3](#) [ASTR 103.3](#) [BIOL 107.6](#) [BIOL 120.3](#) [BIOL 121.3](#) [CHEM 112.3](#) [CHEM 115.3](#) [CMPT 100.3](#) [CMPT 102.3](#) [CMPT 105.3](#) [CMPT 106.3](#) [CMPT 111.3](#) [CMPT 115.3](#) [GEOG 120.3](#) [GEOG 125.3](#) [GEOL 108.3](#) [GEOL 109.3](#) [GEOL 121.3](#) [GEOL 122.3](#) [MATH 104.3](#) [MATH 110.3](#) [MATH 112.3](#) or [MATH 116.3](#) [MATH 121.3](#) [MATH 125.3](#) [MATH 128.3](#) [PHYS 115.3](#) [PHYS 117.3](#) or [PHYS 125.3](#) [PHYS 127.3](#) or [PHYS 128.3](#) [STAT 103.3](#) Any senior-level natural science course provided that the prerequisite is met and not more than 6 credit units in one subject are used for the Natural Science Requirement Students may use only 6 credit units in mathematics and statistics towards the Natural Science Requirement [STAT 244.3](#) may not be used to meet the Natural Science Requirement in Program Types A, B or D Choose 15 Credit Units from a subject that is chosen to be Teaching Area II.

For information about what classes may count towards Teaching Area II, please see the College of Education page. It is recommended that students contact the College of Education for assistance with choosing courses for this teaching area. Notes: a) If English is chosen as

Teaching Area II, only 12 additional credit units in English are required, plus 6 credit units of any course approved for credit in Arts & Science. b) If Native Studies is chosen as Teaching Area II, only 15 additional credit units of Native Studies (or other courses listed on the Teaching Area requirements) are required, plus 3 credit units of any course approved for credit in Arts & Science. c) If Social Studies is chosen as Teaching Area II, only 15 additional credit units of Social Studies (or other courses listed on the Teaching Area requirements) are required, plus 3 credit units of any course approved for credit in Arts & Science. Choose **3 Credit Units** from the following: any course approved for credit in Arts & Science

(G1 Teaching Area 2) - Arts Education, Drama 15 credit units Choose **15 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level DRAM Courses](#)

(G1 Teaching Area 2) - Arts Education, Visual Arts 15 credit units Note: Any 100-level courses taken after the first 6 credit unit's will be counted as senior courses. Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ARTH Courses](#)

Choose **9 Credit Units** from the following:

Must include two different areas within ART. [100-Level, 200-Level, 300-Level or 400-Level ART Courses](#)

(G1 Teaching Area 2) - English Language Arts 15 credit units Choose **6 Credit Units** from the following: [100-Level ENG Courses](#) Choose **9 Credit Units** from the following: [200-Level, 300-Level or 400-Level ENG Courses](#)

(G1 Teaching Area 2) - Mathematics 15 credit units Choose **6 Credit Units** from the following: [100-Level MATH Courses](#) [100-Level STAT Courses](#) Choose **9 Credit Units** from the following: [200-Level, 300-Level or 400-Level MATH Courses](#) [200-Level, 300-Level or 400-Level STAT Courses](#) [COMM 104.3](#) [COMM 207.3](#) [ECON 204.6](#) [EPSE 441.3](#) [GE 210.3](#) [PLSC 314.3](#) [PSY 233.3](#) [PSY 234.3](#) [SOC 225.3](#) [SOC 325.3](#)

(G1 Teaching Area 2) - Modern Languages 15 credit units Choose **6 Credit Units** from the following: Bilingual/immersion students must complete [FREN 128.3](#) and [FREN 218.3](#) or approved equivalents. [100-Level CREE Courses](#) ([FREN 122.3](#) and [FREN 125.3](#)) or ([FREN 128.3](#) and [FREN 218.3](#)) Choose **9 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level CREE Courses](#) [200-Level, 300-Level or 400-Level FREN Courses](#)

(G1 Teaching Area 2) - Physical Education This teaching area is not available for students in the Secondary program, but is available for students in the Elementary/Middle Years program.

(G1 Teaching Area 2) - Science, Biology 15 credit units Choose **6 Credit Units** from the following: [100-Level BIOL Courses](#) Choose **6 Credit Units** from the following: [BIOL 222.3](#) [BIOL 224.3/BMSC 224.3](#) [BIOL 228.3](#) [BIOL 301.3](#) [BIOL 302.3](#) [BIOL 312.3](#) [BIOL 318.3](#) [BIOL 324.3](#) [BIOL 325.3](#) [BIOL 326.3](#) [BIOL 350.3](#) [BIOL 361.3](#) [BIOL 365.3](#) [BIOL 373.3](#) [BIOL 410.3](#) [BIOL 412.3](#) [BIOL 424.3](#) [BIOL 436.3](#) [BIOL 451.3](#) [BIOL 455.3](#) [BIOL 458.3](#) [BIOL 466.3](#) [BIOL 470.3](#) [BIOL 475.3](#) [BIOL 480.3](#) [BIOL 481.6](#) [PLSC 213.3](#) [PLSC 422.3](#) [PLSC 423.3](#) [PLSC 425.3](#) Choose **3 Credit Units** from the following: [200-Level, 300-Level or 400-Level ACB Courses](#) [200-Level, 300-Level or 400-Level BIOL Courses](#) [200-Level, 300-Level or 400-Level MCIM Courses](#) [200-Level BMSC Courses](#) [HSC 350.3](#)

(G1 Teaching Area 2) - Science, Chemistry 15 credit units Choose **6 Credit Units** from the following: [100-Level CHEM Courses](#) Choose **9 Credit Units** from the following: A course in Analytical Chemistry or Inorganic Chemistry is recommended. [200-Level, 300-Level or 400-Level CHEM Courses](#) [200-Level BMSC Courses](#) [300-Level or 400-Level BIOC Courses](#)

(G1 Teaching Area 2) - Science, Physics 15 credit units Choose **6 Credit Units** from the following: [100-Level PHYS Courses](#) Choose **9 Credit Units** from the following: [200-Level, 300-Level or 400-Level PHYS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ASTR Courses](#)

(G1 Teaching Area 2) - Social Sciences/Social Studies 15 credit units Note: At least 6 credit units of the total 15 credit units must include Canadian content. HIST courses with Canadian content are: HIST 151.3, [HIST 152.3](#), HIST 257.3, HIST 258.3, HIST 259.3, HIST 260.3, HIST 263.6, [HIST 264.3](#), HIST 265.3, HIST 266.3, HIST 361.3, HIST 363.3, HIST 364.3, [HIST 450.6](#), HIST 464.6, HIST 466.3; ECON course with Canadian content is: ECON 231.3; GEOG courses with Canadian content are: GEOG 202.3, [GEOG 204.3](#), GEOG 342.3, GEOG 343.3, GEOG 381.3, GEOG 386.3, GEOG 442.3; POLS courses with Canadian content are: POLS 204.3, POLS 205.3, POLS 222.3, POLS 225.3, POLS 226.3, POLS 303.3, POLS 304.3, POLS 305.3, POLS 306.3, POLS 307.3, POLS 322.3, POLS 323.3, POLS 349.3, POLS 375.3, POLS 376.3, POLS 404.3, POLS 405.3, POLS 422.3, POLS 424.3, POLS 425.3; SOC courses with Canadian content are: SOC 203.3, SOC 204.3, SOC 219.3, SOC 227.6, SOC 244.3, SOC 246.3, SOC 319.3; NS courses with Canadian content are all except NS 221.3 and NS 272.3. Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) Choose **6 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level HIST Courses](#) Choose **3 Credit Units** from the following: [100-Level, 200-Level, 300-Level or 400-Level ANTH Courses](#) [100-Level, 200-Level, 300-Level or 400-Level ECON Courses](#) [200-Level, 300-Level or 400-Level HIST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level NS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level POLS Courses](#) [100-Level, 200-Level, 300-Level or 400-Level PSY Courses](#) [100-Level, 200-Level, 300-Level or 400-Level RLST Courses](#) [100-Level, 200-Level, 300-Level or 400-Level SOC Courses](#) [100-Level, 200-Level, 300-Level or 400-Level WGST Courses](#) [GEOG 130.3](#) [GEOG 202.3](#) [GEOG 204.3](#) [GEOG 208.3](#) [GEOG 240.3](#) [GEOG 280.3](#) [GEOG 340.3](#) [GEOG 341.3](#) [GEOG 342.3](#) [GEOG 343.3](#) [GEOG 346.3](#) [GEOG 350.3](#) [GEOG 364.3](#) [GEOG 381.3](#) [GEOG 385.3](#) [GEOG 386.3](#) [GEOG 442.3](#) [GEOG 446.3](#) [GEOG 486.3](#) [GEOG 491.3](#) [GEOG 495.3](#) [CLAS 110.3](#) [CLAS 111.3](#) [CLAS 220.3](#) [CLAS 225.3](#) [CLAS 240.3](#) [CLAS 242.3](#) [CLAS 247.3](#) [CLAS 248.3](#)

G2 Music (41 credit units) [MUS 160.0](#) [MUS 120.2](#) [MUS 121.2](#) [MUS 133.3](#) [MUS 134.3](#) [MUS 150.3](#) [MUS 151.3](#) [MUS 220.2](#) [MUS 221.2](#) [MUS 233.3](#) [MUS 234.3](#) [MUS 250.3](#) [MUS 325.3](#) [MUS 438.3](#) or [MUS 428.3](#) Music Theory or Music History Electives Choose **6 Credit Units** from the following: [MUS 303.3](#) [MUS 311.3](#) [MUS 346.3](#) [MUS 347.3](#) [MUS 361.3](#) [MUS 362.3](#) [MUS 363.3](#) [MUS 364.3](#) [MUS 365.3](#) [MUS 367.3](#) [MUS 368.3](#) [MUS 447.3](#) [MUS 450.3](#) [MUS 457.3](#) [MUS 464.3](#) [MUS 465.3](#) [MUS 472.3](#)

G3 Applied Music (24 credit units) [MUAP 143.3](#) [MUAP 145.3](#) [MUAP 243.3](#) [MUAP 245.3](#) [MUAP 343.3](#) [MUAP 345.3](#) [MUAP 443.3](#) [MUAP 445.3](#)

G4 Applied Music Ensemble (4 credit units) Choose **4 Credit Units** from the following: These courses may be taken more than once for credit. Students must complete at least one of these ensembles each year. [MUAP 201.1](#) [MUAP 202.1](#) [MUAP 203.1](#) [MUAP 204.1](#) [MUAP 205.1](#)

G5 Music Recitals [MUS 129.0](#) [MUS 229.0](#) [MUS 329.0](#) [MUS 429.0](#)

G6 Music Education (27 credit units) [EMUS 438.3](#) or [EMUS 448.3](#) [EMUS 442.3](#) [EMUS 490.3](#) Choose **15 Credit Units** from the following: [EMUS 238.3](#) [EMUS 270.3](#) [EMUS 311.3](#) [EMUS 313.3](#) [EMUS 330.3](#) [EMUS 333.3](#) [EMUS 337.3](#) [EMUS 339.3](#) [EMUS 431.3](#) Choose 3 Credit Units from the above list, from any MUS course or from [MUAP 201.1](#) - [MUAP 211.1](#)
G7 Student Teaching [EDST 137.0](#) [EDST 237.0](#) [EDST 337.0](#) Item for Information:

Prerequisite change

ECUR 357 Methods in Secondary Physical Education

Prerequisite(s): 12 credit units in Kinesiology.

For each method courses related to teaching areas in the Secondary program route, the College of Education Catalogue indicates that 12 credit units of study in the particular teaching area are prerequisites of the particular methods course. The exception is ECUR 357 - Methods in Secondary Physical Education, where inclusion of the prerequisite statement was overlooked. To ensure consistency in expectations across the Secondary program route it was proposed (and has been approved by the College of Education Undergraduate Program Committee on Dec. 14, 2011) that the following statement be added into the course/calendar description for ECUR 357: Prerequisite(s): 12 credit units in Kinesiology.

EDWARDS SCHOOL OF BUSINESS

The following changes have been approved by the Edwards Undergraduate Curriculum Committee on January 9, 2012 and by the Edwards faculty on January 25, 2012.

Prerequisite Changes

Add "Permission of the department required." to:

COMM 343.3: Recruitment, Selection and Engagement

COMM 489.3: Strategic Human Resource Management

COMM 371.3: Investment Practicum I

COMM 393.3: Spreadsheet Modeling for Business Decisions

COMM 395.3: Business Forecasting

COMM 465.3: Financial Modeling with Spreadsheets

COMM 471.3: Investment Practicum II

COMM 491.3: Purchasing and Supply Management

COMM 493.3: Total Quality Management

COMM 495.3: Supply Chain Management and E-Commerce

Rationale: These classes are restricted to students within specific majors, and the college wanted to communicate this to students in the Catalogue.

Items for Information

New Special Topics course COMM 398.3, Special Topics: Financial Statement Analysis will be added to the Accounting functional area for Management Major. This course may serve as one of the requirements of the Management Major in the B. Comm. program.

Note: Students may receive credit for all of COMM 321, 323 and COMM 398.

New Special Topics course: COMM 398.3, Special Topics: International Business Topics

COLLEGE OF ENGINEERING

In response to the Arts and Science changes in Engineering Physics courses, the following changes are being made in Engineering programs:

| The following lists EP 225 or EP 325 as a prerequisite:
EP common core grouping in Engineering

| The following lists EP 229 or EE 202 as a prerequisite:
EE 301, EP common core grouping in Engineering

| The following lists PHYS 251 or PHYS 252 as a prerequisite:
EP common core grouping in Engineering

COLLEGE OF GRADUATE STUDIES & RESEARCH

Civil and Geological Engineering

New Graduate Course

CE 808.3 – Structural Stability

Prerequisites/Restrictions: None.

Calendar Description: This course provides an introduction to structural stability and its applications in design of metal members and structures. The theory of elastic member buckling is presented for columns and beams. The incorporation of member behaviour into design standards is described for common members.

Rationale: Provides instruction on a crucial aspect of structural engineering.

Contact person: gordon.putz@usask.ca

Approval: Graduate Academic Affairs Committee, January 24, 2012

Surgery

New Graduate Course

SURG 803.6 – Orthopaedic Surgery – Anatomy and Basic Science

Prerequisites/Restrictions: Permission of the Division of Orthopaedic Surgery

Calendar Description: Seminars dealing with Orthopaedic Surgery. A study is made of basic sciences, including Anatomy, Physiology, and Biochemistry as applied to Orthopaedic Surgery. A study of both basic science and clinical aspects of musculoskeletal disease. A presentation of orthopaedics clinical material with discussion of the fundamental principles involved. Each student assists in the preparation of material for presentation.

Rationale: The original course was deleted via Moribund. A New Graduate Course was required for CGSR students to obtain credit in conjunction with Orthopaedic Surgery students. The CGSR and the Division of Orthopaedics worked together extensively to create the new course that met graduate level requirements.

Contact person: Anthony.king@usask.ca

Approval: Graduate Academic Affairs Committee, February 9, 2012

Computer Science**New Graduate Course****CMPT 846.3 – Software Maintenance and Evolution****Prerequisites/Restrictions:** Permission of the Instructor**Calendar Description:** This course aims to make students aware of the challenges inherent in the maintenance and evolution of software systems, and to provide a working understanding of some of the techniques and best practices currently in use for changing software safely, efficiently and in a cost effective way during the evolution.**Rationale:** This course has been offered twice as a Special Topics class by a junior faculty member in their area of expertise. The department will benefit from this course since it is a necessary background course for graduate students which the proposed instructor is supervising and also offers an opportunity as a breadth course for all graduate students in our department to learn about an important area of software engineering from an expert. The proposed course improves our breadth offerings for Doctoral students needing to satisfy the qualifying exam requirement of their programs, and helps to keep our graduate course offerings aligned with the evolving research interest of our faculty.**Contact person:** croy@cs.usask.ca**Approval:** Graduate Academic Affairs Committee, January 27, 2012

College of Medicine**Item for Information**

The description regarding new course Med 110 Medical Genetics in the [December, 2011 University Course Challenge](#) (p. 52) should also have included the information that MED 206 Genetics is now going to be deleted.