DATE: June 6, 2016
TO: All Members of the Council Committee on Undergraduate Admissions and Studies
FROM: Coby Stephenson, Calendar Production/Convocation Coordinator
RE: NOTICE OF MEETING

AGENDA

1. APPROVAL OF AGENDA
2. APPROVAL OF MINUTES OF LAST MEETINGS, April 5, 2016 and May 5, 2016.
3. BUSINESS ARISING FROM THE MINUTES
4. OLD BUSINESS
   4.1 Report from Task Forces, Commissions or Sub-committees
      4.1.1 Commission to Review Fresh Start Program
      4.1.2 University Regulations Sub-committee
5. NEW BUSINESS
   5.1 Report from the Faculty of Arts Appendix I pg 2 - 12
   5.2 Report from the Faculty of Business Administration Appendix II pg 13 - 16
   5.3 Report from the Faculty of Education Appendix III pg 17
   5.4 Report from La Cité universitaire francophone Appendix IV pg 18 - 19
   5.5 Report from the Faculty of Media, Art, and Performance Appendix V pg 20 - 28
   5.5 Report from Faculty of Science Appendix VI pg 29 - 42

6. ADJOURNMENT
5.1 Report from the Faculty of Arts

Appendix I

Items for Approval

The Faculty of Arts recommends approval of the following motions:

A. Departmental of Indigenous Languages, Arts, and Culture

Motion 1: To delete the BA Majors in Cree and Saulteaux Language Oracy, and the BA Honours majors in Cree and Saulteaux Language Studies, effective 201710.

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>BA Cree Language Oracy Major Required Courses</th>
<th>Student's Record of Courses Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.20.3.2 BA Major in Cree Language Oracy</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Arts Core Requirements**

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Course Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>ARTS 099</td>
</tr>
<tr>
<td>3.0</td>
<td>ENGL 100</td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in MATH, STAT, CS, (except CS 100), PHIL 150, 352, 450, 452, 455, SOST 201, ECON 224</td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in ART, ARTH, CTCH, MAP, FILM, MU, MUCC, MUEM, MUMI, MUTH, THAC, THDS, THEA, THST</td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in ASTR, BIOL, CHEM, GEO, or PHYS that has a laboratory component, or GEOG 121</td>
</tr>
<tr>
<td>3.0</td>
<td>One of: ENGL 110, 215, 218, PHIL 100, SOST 110</td>
</tr>
<tr>
<td>3.0</td>
<td>Two language courses (or one six-credit class) in any language other than English. Requirement met in major</td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in ANTH or RLLST, (except RLLST 181, 184, 186, 188, 281, 284, 288, GEOG 100, 120</td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in HIST or CLAS 100, or IDS 100 or CATH 200</td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in ECON, GEOG</td>
</tr>
</tbody>
</table>
### BA Cree Language Oracy major, required courses

<table>
<thead>
<tr>
<th>Credit-hours</th>
<th>Student's record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>(except GEOG 100, 121, 308, 321, 323, 325, 327, 329, 333, 411, 421, 423, 429, or 431), IS, JS, PSCI, PSYC, SOC, SOST or WGST</td>
<td></td>
</tr>
</tbody>
</table>

3.0  
Any course in INA, INAH, INCA, INDG, INHS or any one of ENGL 214, 310AA-ZZ; GEOG 344, HIST 310, JS 350, 351; KIN 105, PSCI 338 or SOC 214 or other courses approved by the Faculty of Arts as having substantial indigenous content including special studies.

Refer to §9.9.1.1 for further details.

### Open Electives

- **27.0** Subtotal
- **48.0** 16 elective courses
- **120.0** Total: 60% PGPA & UGPA required

### Honours Major in Cree Language Studies

<table>
<thead>
<tr>
<th>Credit-hours</th>
<th>BA Cree Language Studies Honours major, required courses</th>
<th>Student's record of courses completed</th>
</tr>
</thead>
</table>

#### Honours Major Requirements

- **3.0** CREE 100 or 104
- **3.0** CREE 101 or 105
- **3.0** CREE 202
- **3.0** CREE 203
- **3.0** CREE 206
- **3.0** CREE 215
- **3.0** CREE 225
- **3.0** CREE 303 or 305
- **3.0** CREE 315 or 325
- **3.0** CREE 330
- **3.0** CREE 340
- **3.0** CREE 404 or 405
- **3.0** CREE 480
- **3.0** Two 300-level CREE
- **3.0** Two 400-level CREE
- **3.0** HUM 250
- **3.0** EINL 325 or LING 327
- **0.0** Honours paper

**57.0** Subtotal: 75% major GPA required

#### Arts Core Requirements

- **27.0** Same as stated above for the BA in Cree Language Literacy or Oracy.

#### Open Electives

- **36.0** 13 elective courses
- **120.0** Total: 70% PGPA & 60% UGPA required
### MAJOR REQUIREMENTS

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Course Description</th>
<th>Student's record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>SAUL 100 or 104</td>
<td></td>
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<tr>
<td>3.0</td>
<td>SAUL 101 or 105</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
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<td></td>
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<tr>
<td>3.0</td>
<td>SAUL 203</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 206</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 215</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 303</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 315</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 340</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 404</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Two additional SAUL courses at the 300-level or higher</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>LING 230 (formerly LING 175)</td>
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</tr>
<tr>
<td>3.0</td>
<td>HUM 251</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FINC 326 or LING 327</td>
<td></td>
</tr>
</tbody>
</table>

**45.0** Subtotal: 65% major GPA required

### ARTS CORE REQUIREMENTS

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Course Description</th>
<th>Requirement met in major</th>
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</thead>
<tbody>
<tr>
<td>3.0</td>
<td>ARTS 099</td>
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<tr>
<td>3.0</td>
<td>ENGL 100</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in MATH, STAT, CS, except CS 100, PHIL 110,</td>
<td>Requirement met in major</td>
</tr>
<tr>
<td></td>
<td>150, 352, 450, 452, 480, SOST 211, ECON 224</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in ART, RHTH, CTCH, MAP, FILM, MU, MUCO, MUEN,</td>
<td>Requirement met in major</td>
</tr>
<tr>
<td></td>
<td>MUHL, MUTH, THAC, THDS, THEA or THST</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in ASTR BIOL, CHEM, GEOL or PHYS that has a</td>
<td>Requirement met in major</td>
</tr>
<tr>
<td></td>
<td>laboratory component, or GEOG 121</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>One of ENGL 110, RLST 245, 248, PHIL 100, SOST 110</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Two language courses (or one six-credit class) in any</td>
<td>Requirement met in major</td>
</tr>
<tr>
<td></td>
<td>language other than English</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in ANTH or RLST, except RLST 181, 184, 186,</td>
<td>Requirement met in major</td>
</tr>
<tr>
<td></td>
<td>188, 281, 284, 288, GEOG 100, 120</td>
<td></td>
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<tr>
<td>3.0</td>
<td>Any course in HIST or CLAS 100, or IDS 100 or CATH 200</td>
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</tr>
<tr>
<td>3.0</td>
<td>Any course in ECON, GEOG, except GEOG 100, 120, 121, 309,</td>
<td>Requirement met in major</td>
</tr>
<tr>
<td></td>
<td>321, 322, 325, 327, 329, 330, 411, 421, 423, 429, 431,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IS, JS, PSCI, PSYC, SOC, SOST or WGST</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Any course in INA, INAH, INCA, INDC, INHS or any one of</td>
<td>Requirement met in major</td>
</tr>
<tr>
<td></td>
<td>ENGL 214, 310AA, 310AB, GEOG 344, HIST 310, IS 350, 351,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>KIN 105, PSCI 338 or SOC 214 or other courses must be</td>
<td></td>
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<td></td>
<td>approved by the Faculty of Arts as having substantial</td>
<td></td>
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<tr>
<td></td>
<td>indigenous content, including special studies</td>
<td></td>
</tr>
</tbody>
</table>

Refer to §9.9.1.1 for further details.

**27.0** Subtotal

### OPEN ELECTIVES
9.20.3.11 Honours Major in Saulteaux Language Studies

<table>
<thead>
<tr>
<th>Credit hours</th>
<th>BA Saulteaux Language Studies Honours major, required courses</th>
<th>Student’s record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>SAUL 100 or 104</td>
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<tr>
<td>3.0</td>
<td>SAUL 206</td>
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<td>3.0</td>
<td>SAUL 215</td>
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<tr>
<td>3.0</td>
<td>SAUL 225</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 303 or 305</td>
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</tr>
<tr>
<td>3.0</td>
<td>SAUL 315 or 325</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>SAUL 330</td>
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<td>SAUL 340</td>
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<td>SAUL 404 or 405</td>
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<tr>
<td>3.0</td>
<td>SAUL 480</td>
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<tr>
<td>3.0</td>
<td>Two 300-level SAUL courses</td>
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<tr>
<td>3.0</td>
<td>Two 400-level SAUL courses</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>HUM 251</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>EINL 325 or LING 327</td>
<td></td>
</tr>
<tr>
<td>0.0</td>
<td>Honours paper</td>
<td></td>
</tr>
<tr>
<td>57.0</td>
<td>Subtotal: 75% major GPA required</td>
<td></td>
</tr>
</tbody>
</table>

Arts Core Requirements

| Credit hours | Same as stated above for the BA in Saulteaux Language Literacy or Oracy. |

Open Electives

<table>
<thead>
<tr>
<th>Credit hours</th>
<th>12 elective courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.0</td>
<td></td>
</tr>
<tr>
<td>120.0</td>
<td>Total: 70% PGPA &amp; 60% UGPA required</td>
</tr>
</tbody>
</table>

Rationale: These are programs which we do not have the capacity to offer and which have never been completed by any students. Their removal from the calendar will allow us to concentrate on the established language minors and literacy majors that continue to produce graduates.

B. Certificate in Justice Studies

Motion 2: To create a Certificate in Justice Studies, effective 201710 as follows:

<table>
<thead>
<tr>
<th>Credit hours</th>
<th>Certificate in Justice Studies</th>
<th>Student’s record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>JS 090</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>JS 100</td>
<td></td>
</tr>
</tbody>
</table>
### Rationale:
A Certificate in Justice Studies will meet:

- a) the needs of students wishing to acquire, post-secondary accreditation in the justice field but not wishing to commit to a full degree;
- b) the needs of students, in collaboration and in agreement with the Gabriel Dumont Institute (GDI), wishing to acquire post-secondary accreditation in the justice field by accessing courses in the north; and
- c) that may wish a laddering option toward a degree at some future time (NB: stale dating of courses will be applicable based on the Faculty of Arts/Department of Justice Studies policies). These programs will also meet the specialized requirements of justice employers (e.g., corrections, policing, and restorative justice organizations, etc.).

### C. Diploma in Justice Studies

**Motion 3:** To create a Diploma in Justice Studies, effective 201710 as follows:

<table>
<thead>
<tr>
<th>Credit hours</th>
<th>Diploma in Justice Studies</th>
<th>Student's record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60.0</td>
<td>Subtotal: 65% PGPA Required</td>
<td></td>
</tr>
</tbody>
</table>
Rationale: A Diploma in Justice Studies will meet: a) the needs of students wishing to acquire, post-secondary accreditation in the justice field but not wishing to commit to a full degree; b) the needs of students, in collaboration and in agreement with the Gabriel Dumont Institute (GDI), wishing to acquire post-secondary accreditation in the justice field by accessing courses in the north; and c) that may wish a laddering option toward a degree at some future time (NB: stale dating of courses will be applicable based on the Faculty of Arts/Department of Justice Studies policies). These programs will also meet the specialized requirements of justice employers (e.g., corrections, policing, and restorative justice organizations, etc.).

D. Department of Political and International Studies

Motion 4: To add PSCI 341 (Canadian Foreign Policy) and PSCI 347 (War and Peace) to the list of courses, from which students must pick five, that may be used to satisfy the requirements for the Certificate in Political and International Governance, effective 2016/30.

9.26.7 CERTIFICATE IN POLITICAL AND INTERNATIONAL GOVERNANCE

<table>
<thead>
<tr>
<th>Credit hours</th>
<th>Certificate in Political and International Governance, required courses</th>
<th>Student’s record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>PSCI 100</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>IS 100</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>PSCI 230</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Two of: PSCI 210, 220, 240; IS 210, 220, 230, 240</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>390AA-ZZ*</td>
<td></td>
</tr>
</tbody>
</table>

* Department Head approval required to use IS/PSCI 390AA-ZZ courses for the Certificate.

Total: 30.0 Credit hours, 65% PGPA required

Rationale: The omission of these classes earlier was an oversight that this motion corrects.

D. Arts Transition Program (First Nations University of Canada)

Motion 5: To modify the Arts Transition Program for students registered through the First Nations University of Canada, effective 2016/30.

The Arts Transition Program (ATP) is a collaborative initiative of the Student Success Centre, UR International, and the Faculty of Arts. The program is designed to assist students transferring to the Faculty of Arts to gain the learning
skills needed for academic success. While all transferring students are encouraged to complete the ATP, it is required of international students (i.e., students admitted by UR International, except for those attending the University of Regina as part of an exchange agreement) who have been required to discontinue (RTD'd) from another Faculty or any transferring student with a UGPA below the Faculty of Arts’ minimum of 60%.

The ATP courses, workshops, and sessions, are designed to facilitate the development of peer cohorts that will help students obtain the academic, social and cultural skills that they require to thrive in the Faculty of Arts. In addition, the ATP will serve as an early intervention for students who are on academic probation, before they reach the point where they are required to withdraw from the university. For international students, in particular, a forced withdrawal from the university typically leads to a legal deportation from Canada, with lifelong repercussions.

The ATP is a 2-semester program, structured as follows:

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 099 (0 credit hours)</td>
<td>INDG 104 (3 credit hours)</td>
</tr>
<tr>
<td>RDWT 120 (or Arts course) (3 credit hours)</td>
<td>ENGL 100 (3 credit hours)</td>
</tr>
<tr>
<td>Faculty of Arts course (3 credit hours)</td>
<td>(optional) Faculty of Arts course (3 credit hours)</td>
</tr>
<tr>
<td>Student Success Workshops</td>
<td>Student Success Workshops</td>
</tr>
</tbody>
</table>

The Student Success Workshops include six hours of equated credit that will be considered as credit hours for funding purposes, as follows:

- Support workshops: 2 - 3 hours weekly (addressing academic skill-building and life skills).
  
  *Note: some workshops for international students will be offered in partnership with the Global Learning Centre.*

- Personal professional development: 3 hours weekly (includes peer support groups, reflective journal, and guided homework time).

- Academic coaching: 2 hours weekly (group coaching sessions).
  
  *Note: some coaching sessions for international students will be led by Academic Coaches through the Global Learning Centre.*

- Writing lab: 1-2 hours per week spent in a writing lab.

Students participating in the program are required to:

- Attend all scheduled Student Success Workshop sessions;
- Complete weekly reflection journals (such journal entries must meet a minimum standard);
- Attain a minimum of 60% in each credit course; and
- Receive a P (pass) in Arts 010; and,
- Receive a P (pass) in Arts 099.

Program policies:
1. Students are charged $900 per semester to cover the costs of the ATP. This fee is in addition to any standard registration and course fees.

2. If a student has already passed ACAD 100 and/or ENGL 100 another Faculty of Arts course may be substituted.

3. Students who are unsuccessful in the ATP will be allowed to take the Academic Recovery Program (ARP) later.

4. Students who successfully complete the ATP, and have a UGPA of at least 60%, have satisfied the conditions of their admission to the Faculty of Arts and will be afforded all the rights and privileges of registration through the Faculty.

5. Students who are on university probation will have their probation period extended while they are in the ATP so that they will be exempted from a MW (must withdraw) academic action.

6. Students who successfully complete the ATP and still have a UGPA below the minimum standard of 60%:
   a. will be allowed to continue studies in the Faculty for a further 15 credit hours
   b. will be limited to a maximum of 12 credit hours per semester
   c. must have a UGPA of 60% after the term in which the 15th credit hour is completed.

Failure to attain a minimum UGPA of 60% after the completion of the ATP and the additional 15 credit hours will result in a mandatory withdrawal of at least three semesters.

7. Students who receive a failing grade in a third completed attempt at ENGL 100 must withdraw from the university for two years.

8. Students cannot appeal the requirements of the ATP.

9. Students who are unsuccessful in either semester of the ATP will be Required to Discontinue studies in the Faculty of Arts for a minimum of 3 semester if they are not admitted to the Academic Recovery Program.

(end of motion 5)

Rationale: This program reflects some changes needed to better support students registered through the First Nations University of Canada, and that align more closely with its mission.

E. Admission to Honours

Motion 6: To delete the requirement that students who otherwise meet the requirements for admission to an Honours major, but have failed more than 9 credit hours after attempting 30 to appeal to the Faculty of Arts Undergraduate Student Appeals Committee for admission, effective 201630.

(end of motion 6)
Rationale: Seldom do students who’ve failed more than 9 credit hours, after attempting their first 30, attempt to pursue an Honours major in Arts. When they have attempted to do so, it is because of their drastically improved academic performance and upon encouragement from the department. This support has compelled the Faculty’s Undergraduate Student Appeals Committee to approve such requests. In doing so, the need for this regulation is unclear. Its enforcement imposes an unnecessary burden on the Student Services Office, and the Federated Colleges’ Academic or Registrar’s Offices, with no benefit to students or departments who, currently, maintain exclusive authority over the admission into their Honours majors.

F. Program Overlap

<table>
<thead>
<tr>
<th>Motion 7: to clarify the Faculty of Arts’ policy regarding the awarding of concurrent and additional degrees and programs that students may earn at one time.</th>
</tr>
</thead>
</table>

9.7.1 Awarding of Concurrent and Additional Degrees and Programs

Refer to §6.2

Students may receive from the Faculty of Arts only one certificate, diploma, degree, major and/or minor, in a principal area of study at one time. That is, the academic emphasis of each program must be distinct from any other programs a student pursues at the same time. No more than half of the courses taken by the student to satisfy the requirements of one certificate, diploma, degree, major and/or minor can be used toward the requirements for another for both to be awarded concurrently.

For concurrent and additional degrees, majors and/or minors, the principal area of study or academic emphasis of each degree program must be different. Specifically, at least one half of courses used in an additional degree/major must not be used in the first major. Similarly, at least one half of courses used in a minor must not be used in a major. As such, students may receive only one of the following degrees: BA in Justice Studies, BA in Police Studies, or Bachelor of Human Justice. Likewise, the Advanced Certificate in Justice Studies is not open to holders of a Bachelor of Human Justice. Similarly, the Advanced Certificate in Police Studies is not available to holders of a Bachelor of Arts in Police Studies.

(End of motion 7)

Rationale: As the Faculty continues to develop interdisciplinary programs that appeal to students, increasing numbers of students are attempting to use many courses from a supporting program to earn minors, second majors and/or certificates in a multiple disciplines that are similar, and within the 120 credit hours required for a BA. This proposal clarifies the Faculty’s stance on what constitutes distinct programs, and encourages students considering multiple credentials to consider the sequence in which they take classes so that they can complete certificates and/or diplomas prior to their degrees.

II. Items for Information

The Faculty of Arts approved the creation, revision and deletion of the following courses and offers them for information. Each becomes effective 201630.

A. New courses

1. Department of English

| ENGL 271 | 3:3-0 |

Health Studies and Literature
This course focuses on how knowledge of creativity, and understanding through reading and experiencing literature and culture, can be understood in the context of health studies. Students will learn to better understand how individuals experience, negotiate, and process illness, trauma, loss, dying, aging and suffering.

*** Prerequisite: ENGL 100 ***

**Rationale:** This course is intended as an introduction to health studies and literary study, an important growing area in the health humanities that relates health and wellness concerns with literary expression, literary theories of health, and the role of culture in the understanding and expression of health concerns. Further, clinical contexts for the study and uses of literature extend the understanding of the relationship between culture and health care practice. The course is intended as an elective for students in health-related programs, such as Psychology, programs in KHS, Nursing, pre-medicine, etc., as well as for students who want to explore their own health and wellness concerns through a literature and health humanities lens. The sole prerequisite of English 100 will make the course suitable for non-majors.

2. **Department of Sociology and Social Studies**

   **SOC 288 3:3-0**

   **The Sociology of Addiction**

   This course explores the concept of addictive behaviour using different models and theories relevant to understanding addiction within Canadian society from a sociological perspective.
   
   *** Prerequisite: Completion of 12 credit hours or Soc 100 or permission of the Department Head. ***

   **Rationale:** This course fills a void in the Sociology and Social Studies curriculum. While the topic of addiction often comes up in different courses in the Department, this is inconsistent, depending on the particular expertise and interests of the instructor. In addition, this topic would not be covered in sufficient depth and breadth allowing a broader understanding of the issues. Sociology majors will benefit from the opportunity to apply their specialized theoretical and methodological insights to a serious contemporary social problem.

   Additionally this course will appeal to elective interest among Sociology majors, as well as other students due to the broad public interest in the topic of addictive behaviour. Like other service courses offered by Sociology, this course could play a similar role in faculties and departments such as Social Work, Psychology, Education, Justice Studies and Police Studies.

B. **Revised Courses**

1. **Department of Political and International Studies**

   **PSCI 480 6:6-0**

   **Provincial Legislative Internship Program**

   The study of Saskatchewan’s provincial political institutions, politics, public policies, public management, and public administration through a combination of direct observations, directed readings, and research and analysis.

   ** Must be chosen by a Legislative Internship Selection Committee prior to registration. **
* Note: All activities will take place at the Legislative Building in Regina. The internship runs for 7 months at times determined by the Legislative Internship Advisory Committee, from January to July. *

2. Department of Psychology

PSYC 460 3:3-0
Introduction to Clinical Psychology
Seminar in Applied Psychology
An introduction to the practice and professional conduct of psychologists in various applied settings.
*** Prerequisite: Two 300-level courses in psychology ***

Rationale: This title is more descriptive of the actual course content. Secondly, we think that this title will help increase enrolment in this course. Thirdly, this title will be helpful on transcripts for students aspiring to graduate studies in clinical psychology.

3. Linguistics

LING 410 3:3-0
Seminar in Phonology

***Prerequisite: One of LING 210 or permission of the Department Head of Indigenous Languages, Arts and Cultures CREE 310 or SAUL 310.***

Rationale: LING 210 is now the only prerequisite course, as CREE 310 and SAUL 310 have been archived and are not available

LING 411 3:3-0
Seminar in Morphology

***Prerequisite: One of LING 211 or permission of the Department Head of Indigenous Languages, Arts and Cultures CREE 311 or SAUL 311.***

Rationale: LING 211 is now the only prerequisite course, as CREE 311 and SAUL 311 have been archived and are not available

C. Deleted Courses

1. Department of Psychology

PSYC 496AY 3:3-0
Psychology & Film
This class will examine how psychopathology and the practice of psychology are portrayed in the popular media with an emphasis on visual mediums such as film and
television. It will also examine the influence these mediums have had on the practice of psychology with respect to therapy and diagnostic classification.

*** Prerequisite: PSYC 230 and PSYC 333.***

**Rationale:** The instructor who offered this course has left the University and no other members of the department are interested in offering it.

**PSYC 203**

**Research Methods for Behavioral and Health Sciences**

Quantitative and qualitative research methods for behavioural and health sciences, which may include: research ethics, basic statistics, clinical trials, surveys, case studies, interviews, focus groups, program evaluation, and community-based approaches.

*Note: Reserved for nursing students only. Others require permission of Department Head.*

**Rationale:** This course has never been offered and there appears to be no demand for it.

**PSYC 381**

**Psychology of Belief Systems**

A study of the relationship between beliefs as underlying assumptions and the political, religious, social, and scientific formulations and behaviours to which they give rise.

*** Prerequisite: PSYC 230 and 270, or two 200 level courses in the social sciences.***

**Permission of the Instructor is required to register.**

**Rationale:** This course hasn’t been offered since 2010. Further there is neither capacity nor interest in the department to offer it.
5.2 Report from the Faculty of Business Administration

Appendix II

Items for Approval

The Faculty of Business Administration Council approved the following changes to the requirements for Majors in the Bachelor of Administration (BAdmin) program and presents the changes to CCUAS for approval.

Motion 1: Major requirements for the Bachelor of Administration Degree (FNUniv)

To revise the requirements for the Majors in Entrepreneurship, Finance, Human Resources Management, and Marketing in the Bachelor of Administration Degree (FNUniv) as follows, effective 201630.

Major in Entrepreneurship

- BUS 302, BUS 304, BUS 402
- Two of: BUS 301, BUS 314, BUS 394, BUS 476AA-ZZ

Major in Finance

- BUS 395, BUS 494, BUS 495, BUS 497
- One of: BUS 491, BUS 498
- One of: BUS 390-399, BUS 472AA-ZZ, BUS 490-499

Major in Human Resources Management

- BUS 453
- Three of: BUS 301, BUS 350-369
- One of: BUS 450-469, BUS 473AA-ZZ

Major in Marketing

- BUS 310, BUS 312, BUS 413
- Two of: BUS 311, BUS 313, BUS 315-319, BUS 374AA-ZZ, BUS 410-419, BUS 474AA-ZZ

(end of motion 1)
**Rationale:** The proposed changes in these BAdmin majors will update the requirements to be the same as the recent changes that were approved for BBA majors. The requirements for majors in the BBA and BAdmin degrees have been the same since majors were introduced and we wish to continue this practice. The changes have been recommended by First Nations University.

The calendar templates for the majors with changes (added and deleted) are as follows:

### 10.9.9.2 Major in Entrepreneurship

<table>
<thead>
<tr>
<th>Credit</th>
<th>Entrepreneurship Major, required courses</th>
<th>Student’s record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>BUS 302</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 304</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 402</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Two of: BUS 301, 314, 394, 476AA-ZZ</td>
<td></td>
</tr>
<tr>
<td>15.0</td>
<td>Subtotal</td>
<td></td>
</tr>
</tbody>
</table>

### 10.9.9.3 Major in Finance

<table>
<thead>
<tr>
<th>Credit</th>
<th>Finance Major, required courses</th>
<th>Student’s record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>BUS 395</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 494</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 495</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 497</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 498</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>One of: BUS 491, BUS 498</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>One of: BUS 390-399, 394, BUS 472 AA-ZZ, BUS 490-499, BUS 492 AA-ZZ</td>
<td></td>
</tr>
<tr>
<td>18.5</td>
<td>Subtotal</td>
<td></td>
</tr>
</tbody>
</table>

### 10.9.9.4 Major in Human Resources Management

<table>
<thead>
<tr>
<th>Credit</th>
<th>Human Resource Management Major, required courses</th>
<th>Student’s record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>BUS 453</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>One of: BUS 450-469, BUS 473AA-ZZ</td>
<td></td>
</tr>
<tr>
<td>15.0</td>
<td>Subtotal</td>
<td></td>
</tr>
</tbody>
</table>

### 10.9.9.6 Major in Marketing

<table>
<thead>
<tr>
<th>Credit</th>
<th>Marketing Major, required courses</th>
<th>Student’s record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>BUS 310</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 312</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>BUS 413</td>
<td></td>
</tr>
<tr>
<td>15.0</td>
<td>Subtotal</td>
<td></td>
</tr>
</tbody>
</table>
Items for Information
The Faculty of Business Administration Council approved the following course changes for seven ADMN courses to align them with the equivalent BUS courses, effective 201710, and presents the changes to CCUAS for information.

**ADMN 001 – Co-operative Administration Work/Study I**
This zero-credit hour course is for students in their first work term. Registration in this course enables students completing work terms to enjoy the same privileges (e.g. use of University facilities) enjoyed by students registered for the semester. **Acceptance into the Co-operative Education program is required prior to registration.**

**ADMN 260 – Introduction to Organizational Behaviour**
This introductory course addresses basic concepts and processes of organizational behaviour. The topics include individual level variables, such as perception, personality, attitudes, and motivation; interpersonal and group process, such as communication, teams, leadership, and power; and, organizational level factors such as organizational design, culture, and change. *Note: Students may not receive credit for both ADMN 260 and BUS 260.*

**ADMN 302 – Entrepreneurship: Small Business Modeling and Feasibility Analysis**
This course addresses early stage elements of starting up and operating a small business on a conceptual level. Using cases, competitions and experiential exercises, students will learn opportunity alertness and identification, building a value proposition, testing business hypotheses, creating competitive advantage, setting up financials, analyzing break even, charting growth and planning for exit. Students develop, build and test an entrepreneurial opportunity they identify, and assess its feasibility. The course applies to all business start up including non profit, for profit, for benefit and corporate or institutional intrapreneurship. ***Prerequisite: Completion of a minimum of 60 credit hours of university studies.***

**ADMN 375 – Managing Information Systems**
An overview of management and organizational issues surrounding the Information Systems/Information Technology (IS/IT) function, in its interaction with business functions within and between organizations. Topics will include the evolution of the IS/IT functions, functional area systems, current trends, strategy, managing and acquiring IS resources, and ethical issues surrounding IS/IT. ***Prerequisite: ADMN 205 (or ADMN 265 or BUS 205), ADMN 210 (or BUS 210), ADMN 250 (or BUS 250), ADMN 275 (or BUS 275), ADMN 285 (or BUS 285), ADMN 288 (or BUS 288), ADMN 290 (or BUS 290), and ADMN 007 (or BUS 007)***

*Note: Students may only receive credit for one of ADMN 375, BUS 375, and ADMN 435AI.*
ADMN 400 – Business Strategy

This course focuses on the formulation and implementation of policy and strategy. It centers on the role and responsibilities of the general manager in formulating the goals and objectives of an organization; on integrating policies, plans, and programs; and, on using structures and systems of personal influence so that the organization can operate with a sense of direction and purpose. ***Prerequisite: All core Administration courses and a minimum of 90 credit hours.*** *Note: Students may not receive credit for both ADMN 400 and BUS 400.*

ADMN 405 – Business, Government, and Society

This course provides the student with an understanding of the institutional framework of the Canadian economy and society. ***Prerequisite: A minimum of 75 credit hours.*** *Note: Students may not receive credit for both ADMN 405 and BUS 405.*


This course consists of directed readings in selected topics in administration. ***Prerequisite: Dependent on each class offering.*** *Note: Students may not receive credit for both ADMN 432AA-ZZ and an equivalent BUS 432AA-ZZ covering the same topic.*

Rationale and summary of changes:

The changes are required to bring ADMN courses into alignment with the BUS equivalent. The changes are:

ADMN 001: prerequisites of ADMN 260 and ADMN 285 eliminated and special approval note added.
ADMN 260: prerequisites of ENGL 100 eliminated.
ADMN 302: course title, course description, and prerequisites changed.
ADMN 375: prerequisites changed.
ADMN 400: prerequisites changed.
ADMN 405: prerequisites changed.
ADMN 432: prerequisites and information note added.
Items for Approval

The Faculty of Education has approved and recommends approval of the following motions:

1. Changes to Elementary program

Motion 1: All Elementary B.Ed Programme students must successfully complete all the named courses in the first 60 credit hours of the Elementary Programme template. To be admitted to pre-internship semesters, students must have normally completed 60 credit hours of named courses in semesters one to four. Effective 201630.

(end of motion 1)

Rationale: The named courses in the first 60 credit hours of the Elementary Programme are deemed prerequisites for the curricular methods courses of the pre-internship experience.

Motion 2: That ELNG 310 replaces ELNG 325 for the B.Ed Pre-K to 5 and Middle Years and BEAD Elementary Pre-K to 5 and Middle Years. Effective 201730.

(end of motion 2)

Rationale: ELNG 310 is an updated course in Language and Literacy that is grounded in an integrated pedagogical approach.

2. Change to Undergraduate Calendar

Motion 3: That under Faculty Action 11.5.2 in the Undergraduate Calendar the second bullet be revised to state: Students may be required to discontinue from the faculty for a specified period or indefinitely for unsatisfactory professional development. Effective 201630.

- Students may be required to discontinue from the faculty for a specified period or indefinitely for reasons of health or unsatisfactory professional development.

(end of motion 3)

Rationale: The current language was discriminatory on the basis of health.
5.3 Report from La Cité universitaire francophone

The following resolution concerning a Coop Study Program was passed by La Cité’s Unit Council on April 25th 2016.

**Motion 1:** That the modalities and admission criteria of a new Co-op program at La Cité, as described in the following be approved effective 201710.

**PROGRAM DESCRIPTION**

La Cité’s Co-op program provides a unique opportunity for students to develop their French language skills and gain experience in the labour market while completing their university degree.

Students who enrol in the Co-op program significantly increase their chances of getting a job upon completion of their university studies. Enrolled students have special access to a job bank (PlacePro) and the support of professionals in preparing an application. Jobs may be in Saskatchewan or elsewhere in Canada.

**Terms and conditions**

Students enrolled in La Cité’s Co-op program are required to:

- take part in a Francophone (or bilingual) work environment for three periods of four months each;
- alternate between a term of university classes and a term of work placement;
- end their program with an academic term;
- take job search preparation workshops.

La Cité students have flexibility with respect to the sequence of work placements and university classes. It is possible to request a double placement period, i.e., eight consecutive months in a work environment. Students can take advantage of up to two consecutive workplace periods during the spring/summer term. The program also allows for participation in a fourth work placement period on an optional basis.

The following is one possible sequence of university classes and work placement:

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Classes</td>
<td>2 Classes</td>
<td>Work placement</td>
<td>3 Classes</td>
<td>4 Classes</td>
<td>Work placement</td>
</tr>
<tr>
<td>5 Classes</td>
<td>Work placement</td>
<td>6 Classes</td>
<td>Work placement (optional)</td>
<td>7 Classes</td>
<td>8 Classes</td>
</tr>
</tbody>
</table>
Eligibility criteria

The student must:

- have an average (PGPA) of at least 67.5%;
- be enrolled in a minor in Francophone and intercultural studies or a major in Francophone and intercultural studies;
- have an academic record in good standing.

The Co-op program is not intended for students enrolled in the French as a second language certificate program, nor for part-time students.

To register, complete the form provided on La Cité’s website and submit it to the e-mail address indicated on the form. Registration fees are payable for each work placement. The University of Regina is accredited by the Canadian Association for Co-operative Education (CAFCE).

Rationale: La Cité’s Co-op program will provide a unique opportunity for students to develop their French language skills and gain experience in the labour market while completing their university degree.

Students who enrol in the Co-op program significantly increase their chances of getting a job upon completion of their university studies. Enrolled students have special access to a job bank (PlacePro) and the support of professionals in preparing an application. Jobs may be in Saskatchewan or elsewhere in Canada.
Motion 1: That effective 2017 the Certificate in Media, Art, and Performance be created as follows:

Approved at Faculty Council on December 9, 2015. Approved by the Council Committee on Budget, January, 27, 2016 and Council Committee on Academic Mission, May, 4, 2016.

The Certificate in Media, Art, and Performance is grounded in the historic understanding of a well-rounded university education; it is a foundational study across a range of subjects and provides a well rounded introduction to a number critical learning skills. The Certificate in Media, Art, and Performance can ladder into all of the BA and BFA degrees offered by the Faculty of Media, Art, and Performance.

Courses to Complete – 8 core (1 non credit) + 3 elective
Number of Credit Hours – 30 + MAP 001
Graduation Program GPA – 65%
Must be completed in the first 61 credit hours of study.

<table>
<thead>
<tr>
<th>Credit Hours – 30 total</th>
<th>Certificate in Media, Art, and Performance</th>
<th>Courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>MAP 001</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>ENGL 100 or ACAD 100</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>MAP 102 or MAP 212</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>CTCH 203</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>MAP 202</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>ART, ARTH, CTCH, FILM, INA, INAH, MAP, Music or Theatre course (100 or 200 level)</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>ART, ARTH, CTCH, FILM, INA, INAH, MAP, Music or Theatre course (100 or 200 level)</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>ART, ARTH, CTCH, FILM, INA, INAH, MAP, Music or Theatre course (100 or 200 level)</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Natural or Social Science Option: A course in the following areas (excluding courses in research/statistics): ECON, GEG, PSCI, PSYC, SOC, SOST, and STS other than statistics or methodology Any Science courses, including MATH.</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Culture and Society Option:</td>
<td></td>
</tr>
</tbody>
</table>
Any two courses in the following areas (excluding courses in statistics, methods, or PHIL 150): ANTH, CLAS, ENGL above 100 level, HIST, HUM, INDG, IDS, JS, IS, Language other than English, Literature in Translation, LING, RLST, PHIL, WGST.

| 3.0 | Open Elective - Any course offered by the University of Regina or its Federated Colleges. |

(end of motion 1)

**Rationale:** The certificate in Media, Art, and Performance is being introduced primarily as a retention tool for students registered in the Faculty of Media, Art, and Performance. For a number of pedagogical reasons, many of the programs currently offered in the Faculty of Media, Art, and Performance do not have a substantial number of courses related to a student’s particular major/area of practice embedded in the first year of study. The certificate is being introduced as an incentive for students to continue in their programs of study while at the same time providing them with an introduction to a range of necessary critical learning skills. The Certificate in Media, Art, and Performance ladders into all BA & BFA programs offered by the Faculty of Media, Art, and Performance.

**Motion 2:** That information for students interested in music composition be appended underneath section 14.14.3 Minor in Media, Art, and Performance (Music) in the Undergraduate Calendar, as follows, **effective 2017:**

*Note:* In place of 12.0 credit hours of Music courses in the Music Studies/History area, students interested in Music Composition should take:

MUOC 217 The Art of Music Composition,
CTCH 212 Audio Tools**

and two of the following courses:

MUOC 341 Introduction to Digital Music Software
MUOC 320 Living Music: Acoustic Instrumental Studies
CTCH 110, Introduction to Creative Technologies
CTCH 201, Introduction to Sound Art
CTCH 202, Tablet Orchestra

**It is also recommended that students interested in Music Composition register for MUEN 123 New Music Ensemble (instructor permission required).

(end of motion 2)

**Rationale:** These courses provide an opportunity for students who want to focus on composition within the current minor framework. The number of students and the fact that the courses exist within the existing minor, do not warrant creating a new, stand-alone minor.
Motion 3: That the BMus Composition concentration be revised as follows, effective 201710:

13.14.6.3 Bachelor of Music, Composition Major — Specific Requirements – 45 credit hours

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Courses - Current</th>
<th>Credit Hours</th>
<th>Courses - Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>MUCO 317. Introduction to Composition I</td>
<td>3.0</td>
<td>MUCO 217. The Art of Music Composition</td>
</tr>
<tr>
<td>1.5</td>
<td>MUCO 318. Introduction to Composition II</td>
<td>3.0</td>
<td>CTCH 212. Audio Tools</td>
</tr>
<tr>
<td>3.0</td>
<td>MUCO 326. Introduction to Computers in Music</td>
<td>3.0</td>
<td>MUCO 341. Intro. to Digital Music Software</td>
</tr>
<tr>
<td>3.0</td>
<td>MUCO 327. Introduction to Electronic Music</td>
<td>3.0</td>
<td>MUCO 320. Living Music: Acoustic Instrumental Studies</td>
</tr>
<tr>
<td>3.0</td>
<td>MUCO 340. Instruments of the Orchestra</td>
<td>3.0</td>
<td>MUCO 417. Composition I</td>
</tr>
<tr>
<td>3.0</td>
<td>MUCO 417. Composition I</td>
<td>3.0</td>
<td>MUCO 418. Composition II</td>
</tr>
<tr>
<td></td>
<td>MUCO 418. Composition II</td>
<td>3.0</td>
<td>MUHI 304. Studies in Music of the Contemporary Period</td>
</tr>
<tr>
<td>3.0</td>
<td>MUCO 419. Composition III</td>
<td>3.0</td>
<td>CTCH 110. Introduction to Creative Technologies</td>
</tr>
<tr>
<td>3.0</td>
<td>MUCO 420. Composition IV</td>
<td>3.0</td>
<td>CTCH 201. Introduction to Sound Art</td>
</tr>
<tr>
<td>3.0</td>
<td>MUCO 440. Orchestration</td>
<td>2.0</td>
<td>Applied music lessons 4.0 credit hours</td>
</tr>
<tr>
<td>2.0</td>
<td>Applied music lessons 4.0 credit hours</td>
<td>2.0</td>
<td>2 credit hours x 2 additional semesters (must be taken in semesters 3 &amp; 4)</td>
</tr>
</tbody>
</table>

2 credit hours x 2 additional semesters (must be taken in semesters 3 & 4)
Rationale: The Composition Concentration within the Bachelor of Music has been undersubscribed in recent years and has been heavily dependent on one professor for the teaching of core courses. These revisions address that concern by providing more flexibility in the program and bringing in more topical courses and courses from areas outside music that teach composition.

Motion 4: To amend the list of suggested courses in the Creative Technologies Concentration and Minor to reflect the deletion of MUCO 317, 326 and 327 and the creation of new courses MUCO 217, and MUCO 341 (See templates below), effective 201710.
<table>
<thead>
<tr>
<th>Credit hours</th>
<th>Required</th>
<th>Student's record of courses completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>CTCH 110</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>CTCH 203</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>One CTCH at the 200-level not including CTCH 203 or 204</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>CTCH 301</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>CTCH 303 or 304</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>One CTCH at the 400-level</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>ENGG 100 or ENGG 123</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>FILM 280AC or FILM 209</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Two courses from the following list: ART 222, 223, ARTH 222, CTCH 200, 300 or 400-level (including CTCH 304, 305, 402,), CS 330, 408, 409, ENGG 100, 123, ENSE 479, FILM 200, 346, MUCO 217, MUCO 326, 322, MUHI 304, THDS 347.</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>Courses outside the area of concentration.</td>
<td></td>
</tr>
<tr>
<td>3.0</td>
<td>One MAP course or other interdisciplinary Media, Art, and Performance course (approved by Dean or Designate).</td>
<td></td>
</tr>
</tbody>
</table>

**Open Electives** – 42 credit hours

120.0 Open Electives

14.11.4 **BA MEDIA, ART, AND PERFORMANCE MINOR, CREATIVE TECHNOLOGIES**
Credit hours | Required | Student's record of courses completed
--- | --- | ---
3.0 | CTCH course at the 300-level | 
3.0 | CTCH course at the 300 or 400-level | 
3.0 | A course from: ART 222, 223, 355, ARTH 222, CS 280, 408, 409, CTCH 111, CTCH 200, 300 or 400-level, (including CTCH 304, 305, 402), ECMP 355, ENGG 100, 123, ENSE 479, MAP 300, 401, MUCO 217, 218, 326, 327, 341, MUHI 304, THDS 347 | 
18.0 | Total | 

(end of motion 4)

**Rationale:** This is a motion required to reflect changes Music has made to courses that passed through Media, Art, and Performance ASP (Feb. 29, 2016) and Faculty Council (March 9, 2016).

**Motion 5: Effective 201710**, to officially change the name of “Indian Fine Arts” program unit, all associated program major and minor names, and the certificate program name, at First Nations University of Canada to “Indigenous Fine Arts”.

(end of motion 5)

**Rationale:** This name change follows the current trend of replacing “Indian” with “Indigenous”, but it is also a starting point towards the complete restructuring of our Indian Fine Arts programming in terms of Traditional and Contemporary Indigenous Fine Arts. It may in the future require a change of our course titles from INA to INFA but, if this proves necessary, it will be pursued as part of the larger program changes that are under development and is not requested at this time.

**Items for Information**

The following course additions, deletions, and changes were approved at Media, Art, and Performance Faculty Council on May 11, 2016:

**Item 1:** That MUCO 326 and MUCO 327 be made historical, effective 201710.

**CURRENT COURSE INFORMATION AND DESCRIPTIONS:**

**MUCO 326**

3:3-0

Introduction to Computers in Music

Taught in an electronic studio environment, this course introduces computer techniques used in music notation, editing, sound production and recording. Music reading ability recommended.

Note: * Students may only receive credit for one of MU 326 and MUCO 326*

*Note: Creative Technologies Option*

**MUCO 327**

3: 3-0

Introduction to Electronic Music
Introduction to techniques of composing with professional electronic equipment such as Pro Tools, Digital Performer and Max/MSP. This course is taught in an electronic studio environment.

***Prerequisite: MU 326 and MU 321, or permission of Department Head***

Note: Creative Technologies Option*

**Rationale:** These two courses will be replaced by a new course, MUCO 341 Introduction to Digital Music Software.

**Item 2:** That MUCO 320 Living Music: Acoustic Instrumental Studies be created, effective 201710:

**MU CO 320**

**3:3-0**

**Living Music: Acoustic Instrumental Studies**

Study of acoustic instruments, and of the compositional techniques that have been used to write music for instruments from the Classical period to the present day. This course will enhance your ability to appreciate instrumental repertoire, and to write musical arrangements for a variety of instrumental ensembles.

***Prerequisite: 30 credit hours, and music reading ability.***

* Note: Students may only receive credit for one of MUCO 340 and MUCO 320 or MUCO 440.*

**Item 3:** That the Music Department establish the following new course MUCO 341 Introduction to Digital Music Software, effective 201710:

**MU CO 341 3:3-0**

**Introduction to Digital Music Software**

Taught in an electronic studio environment, this course has two complementary parts: a historical survey of electronic music up to the present and practical guidance and experience in the use of current compositional software used in music notation, editing, sound production and recording, such as Sibelius, Pro Tools and Max/MSP.

***Prerequisite: 30 credit hours or permission of instructor.***

*Note: Students may only receive credit for one of MU CO 326, MUCO 327, or MUCO 341.*

**Rationale:** This course combines features of two older courses (MU CO 326 and 327) into one, more efficient course. It retains its 300-level listing because it is intended as an upper year course, and ideally composition students take this course after taking CTCH 212 Audio Tools.

**Item 4:** That MU CO 340 and MUCO 440 be made historical, effective 201710:

**CURRENT COURSE INFORMATION AND DESCRIPTIONS:**

**MU CO 340 3:3-0**

**Instruments of the Orchestra**

Study of all orchestral instruments including technical and acoustic approaches, ranges and writing in idiomatic style. This course will enhance your ability to appreciate orchestral repertoire of all eras. Music reading ability recommended.

*Note: Student cannot receive credit for both MU 340 and MU CO 340.*

**MU CO 440 3:3-0**
Orchestration
Study of compositional developments and techniques of orchestration since the Classical period. At the conclusion of this course you will be able to write arrangements for a variety of musical ensembles. Music reading ability recommended.
***Prerequisite: MUCO 340 or permission of Department Head***
* Note: Student may only receive credit for one of MUCO 440 and MU 456.*

**Item 5:** That MUCO 419 and 420 be made historical, effective 201710.

CURRENT COURSE INFORMATION AND DESCRIPTIONS
MUCO 419 3:3-0
Composition III
A continuation of MUCO 418.
***Prerequisite: MUCO 418**
*Note: Student cannot receive credit for MU 419 and MUCO 419.*

MUCO 420 3:3-0
Composition IV
A continuation of MUCO 419.
***Prerequisite: MUCO 419***
*Note: Student cannot receive credit for MU 420 and MUCO 420.*

**Rationale:** The structure of the Composition Major is changing; these courses are no longer needed.

**Item 6:** That the new course MUEN 123 New Music Ensemble be created, effective 201710:

PROPOSED COURSE INFORMATION AND DESCRIPTION:
MUEN 123 0–1.5: 3-0
New Music Ensemble
An open instrumentation ensemble that studies and performs works of the 20th and 21st centuries and practices free improvisation; it will also perform works by student composers.
**Permission of the instructor is required to register in the fall.**

**Rationale:** The experience of performing works from the existing canon of 20th and 21st century music is invaluable for any music student, but particularly for students majoring in composition. The revised description allows for rehearsal and performance of newly created student compositions, works for open ensemble by contemporary composers such as Reich, Cage, and others, and skills in improvisation.

**Item 7:** That the course MUEN 121 Composition Students’ New Music Ensemble be made historical, effective 201710.

MUEN 121 0–1.5:3-0
Composition Students’ New Music Ensemble
**Permission of the instructor is required to register in the fall.**

**Rationale:** The creation of MUEN 123 has made this course redundant.
Item 8: To create INA 290AA-ZZ as a special topics series Selected Topics in Indigenous Fine Arts AA-ZZ Series. **Effective 201710**

INA 290 AA-ZZ  
**Selected Topics in Indigenous Fine Arts – AA-ZZ Series**  
0-6:6-0  
This series of courses is designated selected topics courses in Indigenous Art within the Department of Indigenous Languages, Arts, and Cultures.

**Rationale:** This course is modeled after ART 290 offered by the Faculty of Media, Art, and Performance. It has been used for offering a series of courses that provide designated selection topics courses within the department of Visual Arts. The creation of INA 290 gives the course a home in the Indian Fine Arts unit of the First Nations University of Canada. Although similar to ART 290, INA 290 is geared to examining Indigenous art practice and traditions both critically and aesthetically. The creation of INA 290 as equivalent to ART 290 follows suit with the other equivalencies (such as INA 220 and 230 as equivalents for ART 220 and 221 respectively). Furthermore, it will allow us to cross-list courses with U of R Visual Arts in the event that, through Indigenization, the Faculty of Media, Art, and Performance seek to offer topics with Indigenous content. This is, in fact, an issue that has already arisen, but we do not yet have an appropriate class for this cross-listing. The present course will allow for this.

Item 9: Effective 201710, that all 300 and 400 level INA courses be changed to 3-credit from 6-credit courses. The courses impacted are INA 310, 320, 330, 400, 410, 420, and 430.

**Rationale:** This aligns our credit hours and class time requirements with Media, Art, and Performance Faculty standards. It will open our intermediate level courses to more non-majors, and increase scheduling flexibility, something that is needed with our current level of understaffing. It will also help with the current program redevelopment.
5.3 Report from the Faculty of Science

Items for Approval

The Faculty of Science has approved the following course changes and offers them for approval.

Department of Chemistry and Biochemistry

**Motion 1:** To replace BIOL 265 with BIOL 378 in the BSc. and BSc. Hons Biochemistry programs. **Effective date, 201710**

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(end of motion 1)
**Rationale:** The department of Biology has changed their animal physiology course from a 2nd year to a third year course (BIOL 265 changed to BIOL 378). Our current BIOC programs offer students a choice between BIOL 265 (animal physiology) and BIOL 266 (plant physiology). This change would maintain this choice.

**Items for Information**

The Faculty of Science has approved the following Course Changes, Deletions and Creations, and offers them for information only.

**Effective date for All Items: 201710**

**1.0 Department of Chemistry and Biochemistry**

**BIOC 391** 3:3-0
Research Experience
This course is intended for students who wish to gain experience in biochemical research under the supervision of a Biochemistry/Chemistry faculty member or a Biochemistry professor at a Federated College. Students will carry out an independent research project, and will have an opportunity to develop an appreciation for experimental preparation, methods, analysis, and scientific report writing.
***Prerequisite: Permission of the Chemistry/Biochemistry Department Head and the faculty member***
*Note: Research positions are limited. Students with a strong background in courses in the subdiscipline of research interest will be given preference*
*Note: Students can only receive credit for one of BIOC 391 and CHEM 391*
*Note: Students can use this course in their program as an elective only*

**CHEM 391** 3:3-0
Research Experience
This course is intended for students who wish to gain experience in chemical research under the supervision of a Chemistry/Biochemistry faculty member or a Chemistry professor at a Federated College. Students will carry out an independent research project, and will have an opportunity to develop an appreciation for experimental preparation, methods, analysis, and scientific report writing.
***Prerequisite: Permission of the Chemistry/Biochemistry Department Head and the faculty member***
*Note: Research positions are limited. Students with a strong background in courses in the subdiscipline of research interest will be given preference*
*Note: Students can only receive credit for one of CHEM 391 and BIOC 391*
*Note: Students can use this course in their program as an elective only*

**CHEM 215** 3:3-3
Analytical Chemistry II - Spectrochemical Analysis
Spectroscopic methods for structural characterization of organic and inorganic compounds: symmetry, infrared spectroscopy, mass spectrometry, nuclear magnetic resonance, and ultraviolet-visible spectroscopy. This course will emphasize practical aspects of spectroscopic methods. Lab component: Experimental spectroscopic techniques, spectral interpretation, and compound characterization.
***Prerequisite: CHEM 105 and CHEM 140***

**2.0 Department of Biology**

**BIOL 375** 3:3-0
Systems Ecology
An ecosystem approach to energy flow and nutrient cycling in Saskatchewan prairies, forests and lakes.
*** Prerequisite: BIOL 275, and STAT 160 or STAT 200 and STAT 201 or higher***

**BIOL 376** 3:3-3
Population and Community Ecology
Explores the major processes governing population dynamics, species interactions, and community structure. Emphasizes a quantitative framework for understanding populations and communities using mathematical models and graphical analysis. ***Prerequisite: BIOL 275, MATH 110 one of MATH 111 or MATH 112, and one of STAT 160 or STAT 200***

**BIOL 380** 3:3-3
Animal Behaviour
An evolutionary approach to the study of the behaviour and ecology of individual animals. Compulsory field work for one week before lectures begin. ***Prerequisite: BIOL 275 and one of STAT 200, STAT 201 or higher or BIOL 341***

**BIOL 425** 3:3-1
Ecological Methodology
A framework for research investigating ecological patterns and processes in natural populations and communities. Observational and experimental methodologies will be covered to enable the students to develop and test hypotheses. ***Prerequisite: BIOL 275 and one of STAT 200, STAT 201 or higher or BIOL 341***

### 3.0 Department of Mathematics and Statistics

**Math 232** 3:3-0
Non-Euclidean Geometry
This course gives an explanation of the nature and foundations of geometry using the system of non-Euclidean geometry. It outlines the concept of mathematical models and the historical and logical significance of the parallel postulate. ***Prerequisite: Two university mathematics courses and either 70% in Mathematics C30 or Pre calculus 30***

**Math 332** 3:3-0
Topics in Geometry
This course explores the relationship of geometry to other fields of mathematics (such as logic and algebra), or to computer science. ***Prerequisite: MATH 122 with a grade of at least 60% and at least 70% in high school geometry***

**Math 383** 3:3-0
Special Functions
The Gamma and Beta functions, asymptotic series, the hypergeometric functions, Bessel functions, orthogonal polynomials. ***Prerequisite: MATH 217 with a minimum grade of 60%***

**Math 483** 3:3-0
Fourier Series
Weierstrass Approximation Theorem, mean square approximation, summability and convergence theorems, Gibbs' phenomenon, applications. ***Prerequisite: MATH 305 and 383 with minimum grades of 60%***

**Math 484** 3:3-0
Calculus of Variations
The brachistochrone, the Euler-Lagrange equations, Hamilton’s Principles, isoperimetric problems and min-max problems.
*** Prerequisite: MATH 305 and 481 with minimum grades of 60% ***

Math 486 3:3-0
Applied Analysis I
Topics include vector integral theorems, differential equations, Fourier series, Laplace transforms and functions of a complex variable.
*** Prerequisite: MATH 212 and 213 with minimum grades of 60% ***
* Note: This course is intended for beginning graduate students in engineering. It is open to mathematics students with permission of the Department Head. *

ACSC 116 3:3-0
Mathematics of Finance I
This course provides a basis of financial mathematics. Topics include measurement of interest, basic and general annuities, yield rates, amortization schedules, and sinking funds.
*** Prerequisite: MATH 103 or 105 or 110 with a grade of at least 60% ***

ACSC 216 3:3-0
Mathematics of Finance II
This course is a continuation of Mathematics of Finance I and covers more advanced topics ranging from the theory of interest to principles of corporate finance. Specific topics include bonds, securities, analysis of risk and basic principles of pricing theory.
*** Prerequisite: ACSC 116 with a grade of at least 60% ***

ACSC 217 3:3-3
Introduction to Actuarial Mathematics
Topics include: economics of insurance, applications of probability to problems of life insurance, life annuities, and life tables.
*** Prerequisite: ACSC 116, and STAT 251 or 351 with a grade of at least 60% ***

ACSC 316 3:3-0
Mathematics of Finance III
This course covers the theory and pricing of financial derivatives such as Puts and Calls, with particular emphasis on the Black-Scholes model.
*** Prerequisite: ACSC 216 and STAT 251 with a grade of at least 60% ***

ACSC 317 3:3-1
Actuarial Models I
Probabilistic and deterministic contingency mathematics in life insurance and pensions. Topics include: benefit premiums, benefit reserves, multiple life functions, and multiple decrement models.
*** Prerequisite: ACSC 217 with a grade of at least 60% ***

ACSC 318 3:3-0
Actuarial Models II
This course introduces collective risk models over an extended period. Stochastic processes are introduced, followed by definition and application of Markov chains. Introductory loss model material is also presented.
*** Prerequisite: ACSC 317 with a grade of at least 60% ***
ACSC 417 3:3-0
Introduction to Casualty Insurance and Credibility
An introduction to property/casualty loss reserving techniques. Topics include: reserves in casualty insurance, ratemaking process, credibility and ruin theory.
*** Prerequisite: ACSC 317 with a grade of at least 60% ***

ACSC 419 3:3-0
Estimation and Selection of Actuarial Models
Topics will include: individual risk models for a short term, collective risk models for a single period, and extended period, application of risk theory.
*** Prerequisite: ACSC 318 and STAT 351 with a grade of at least 60% ***

ACSC 456 3:3-0
Applied Stochastic Processes
An introduction to stochastic processes; Markov chains; Poisson processes; renewal processes; Brownian motion; simulation.
*** Note: Credit can be earned for only one of STAT 456 and ACSC 456. *

MATH 112 3:3-1
Applied Calculus II
An introduction to calculus in two and three variables, first-order differential equations, infinite series, and calculus of trigonometric functions.
***Prerequisites: MATH 103 and Precalculus 30, or MATH 110***
*Note: MATH 112 is a terminal course and is not intended for students who require further calculus courses. Students will receive credit for only one of MATH 111 and 112*

MATH 116 3:3-0
Mathematics of Finance I
This course provides a basis of financial mathematics. Topics include measurement of interest, basic and general annuities, yield rates, amortization schedules, and sinking funds.
***Prerequisite: MATH 103 or 105 or 110 with a grade of at least 60% ***
*Note: Students can receive credit for only one of Math 116 and ACSC 116*

MATH 216 3:3-0
Mathematics of Finance II
This course is a continuation of Mathematics of Finance I and covers more advanced topics ranging from the theory of interest to principles of corporate finance. Specific topics include bonds, securities, analysis of risk and basic principles of pricing theory.
***Prerequisite: ACSC 116 with a grade of at least 60% ***
*Note: Students can receive credit for only one of Math 216 and ACSC 216*

MATH 221 3:3-0
Introduction to Proofs and Problem Solving
An introductory course intended to familiarize students with mathematical reasoning and proof techniques, including direct reasoning, indirect reasoning, and mathematical induction. Topics include elementary number theory, logic, sets, functions, and relations.
*** Prerequisite: MATH 110 and one of MATH 111, 122 or 127 Two university math courses beyond Math 102 ***

MATH 222 3:3-0
Linear Algebra II
A second course in linear algebra. There will be some emphasis on proofs. Topics include matrices, abstract vector spaces, subspaces, bases, inner product spaces, linear transformations, matrix factorizations, symmetric matrices, quadratic forms, and applications of linear algebra.
*** Prerequisite: MATH 103 or 110, and MATH 122, and one of MATH 103 or 110 ***

**MATH 223**
3:3-0
Introduction to Abstract Algebra
An introductory course in abstract algebra. Topics include number systems and an introduction to groups, and some other mathematical structures.
*** Prerequisite: One of MATH 110 or 122, and MATH 221 ***

**MATH 300**
3:3-0
Introduction to Set Theory
*** Prerequisite: MATH 221 and two other university Mathematics courses with grades of at least 60% ***

**MATH 301**
3:3-0
Introduction to Mathematical Logic
Propositional and first-order predicate logic from a mathematical viewpoint. Axiomatically built theories and their models. Detailed study of one or more simple mathematical theories. Recursive functions. Basic ideas of automated theorem proving.
*** Prerequisite: MATH 221 and 223 with grades of at least 60% ***

**MATH 305**
3:3-0
Introductory Mathematical Analysis
Cardinality, real numbers and their topology, sequences, limits, continuity, and differentiation for functions of one real variable.
*** Prerequisite: MATH 221 and 111 with grades of at least 60% ***
*Note: This course is designed for students interested in majoring in Mathematics. Students considering a degree in Mathematics with Honours are encouraged to complete this course by the end of their second year*

**MATH 308**
3:3-0
Topics in the History of Mathematics
A survey of the history of Mathematics exploring the biographies, philosophies and techniques of great mathematicians. The course is directed specifically at Mathematics majors and Secondary Math Education students.
A survey of the history of mathematics, focusing on mathematics developed before 1850. Topics may include mathematics of ancient cultures, cultural aspects of mathematics, how mathematics developed around the world, famous mathematicians and classical mathematics texts. This course is designed for majors in mathematics or mathematics education with a solid background in mathematics. It will be offered in the winter semester, alternating with MATH 309.
*** Prerequisite: MATH 111, 122, and 221 with grades of at least 60% ***

**MATH 309**
3:3-0
Topics in Modern Mathematics
A survey of modern mathematics, examining the objectives of mathematical advancement, important modern results in mathematics, mathematicians of the modern era, and the influences of modern mathematics on contemporary science. The focus of this course will be on mathematics after Gauss (post 1850). The emphasis will be on general modern approaches to mathematical problems and the philosophy of mathematics, rather than specific results. Topics will include (but are not limited to): the nature of mathematical knowledge, origins of modern mathematics, biographies of mathematicians and the influence of mathematics on contemporary science.

*** Prerequisite: MATH 111, 122 and 221 ***

**Note: This course is designed for majors in mathematics or mathematics education with a solid background in mathematics. **

MATH 312
Complex Analysis I
Complex numbers, analytic functions, contour integration, Cauchy's theorem, infinite series, calculus of residues, basic theory of conformal mappings.

*** Prerequisite: MATH 213 with a grade of at least 60% ***

MATH 313
Mathematical Analysis II
The Riemann integral for functions of one variable, sequences and series of functions, differentiation and integration for functions of several variables.

***Prerequisites: Math 213 and Math 305 with grades of at least 60%***

MATH 316
Mathematics of Finance III
This course covers the theory and pricing of financial derivatives such as Puts and Calls, with particular emphasis on the Black-Scholes model.

***Prerequisite: ACSC 216 and STAT 251 with a grade of at least 60%***

*Note: Students can receive credit for only one of Math 316 and ACSC 316*

MATH 317
Real Analysis I
Construction of the real numbers, structure of metric spaces, continuous functions on metric spaces, convergence of series, differential equations.

***Prerequisite: MATH 217 and 313 with grades of at least 60%***

MATH 321
Number Theory I
This is an introductory course in number theory. Topics include divisibility, primes, congruences, number theoretic functions, and diophantine equations.

*** Prerequisite: MATH 221 and two other university mathematics courses with grades of at least 60% ***

MATH 322
Matrix Theory
Topics include: positive definiteness, Jordan canonical form, nonnegative matrices, and applications in matrix analysis.

*** Prerequisite: MATH 222 with a grade of at least 60% ***
MATH 323  3:3-0
Modern Algebra I
A course in abstract algebra dealing with groups, rings, unique factorization domains and fields.
***Prerequisite: MATH 223 with a grade of at least 60%***

MATH 327  3:3-0
Introductory Combinatorics
This is an introductory course in combinatorics. Topics include permutations and combinations, inclusion and exclusion, generating functions, and a brief introduction to graph theory.
***Prerequisite: MATH 221 and 111 with grades of at least 60%***

MATH 329  3:3-1
Linear and Discrete Optimization
A course in the theory and techniques of linear programming; convexity and extreme points of polyhedral sets, the simplex method, duality and selected applications will be covered.
***Prerequisite: CS 110, MATH 122 and one of MATH 103 or 110, and one of MATH 221 or 222 permission of Department Head***

MATH 331  3:3-0
Non-Euclidean Geometry
This course gives an explanation of the nature and foundations of geometry and uses for this purpose the systems of non-Euclidean geometry. It outlines the concept of mathematical models and the historical and logical significance of the parallel postulate.
***Prerequisite: Math 110, and one of Math 122 or Math 231, with grades of at least 60%***
*Note: Students may receive credit for only one of Math 232 and Math 331*

MATH 361  3:3-0
Numerical Analysis I
***Prerequisite: MATH 213 and either MATH 261 or CS 261, with minimum grades of at least 60%***

MATH 381  3:3-0
Differential Equations II
Series solutions of linear equations, systems of linear first-order equations, Fourier series, boundary-value problems, integral transforms, and numerical methods.
***Prerequisite: MATH 217 with a minimum grade of 60%***

MATH 382  3:3-0
Ordinary Differential Equations
Existence and uniqueness of solutions, linear systems, non-linear equations, stability, Liapunov's method, applications.
***Prerequisite: MATH 217 with a minimum grade of 60%***

MATH 411  3:3-0
Real Analysis II
Measurable functions, Lebesgue integrals, Lp spaces, modes of convergence, signed measures, Radon-Nikodym Theorem.
***Prerequisite: MATH 313 with a grade of at least 60%***
MATH 412 3:3-0
Complex Analysis II
This is a continuation of MATH 312. Topics include conformal mappings, argument principle, Rouche's theorem, harmonic functions, Riemann Mapping Theorem, infinite products, asymptotic expansions.
*** Prerequisite: MATH 312 with a grade of at least 60% ***

MATH 421 3:3-0
Number Theory II
This course is a second course in number theory. Topics include quadratic reciprocity, arithmetic functions, distribution of primes, and the prime number theorem.
*** Prerequisite: MATH 321, 305, and 312 with grades of at least 60% ***

MATH 422 3:3-0
Abstract Linear Algebra
A course which presents linear algebra in a theoretical setting. Topics include vector spaces, dual spaces, linear transformations, Jordan canonical form, the spectral theorem, and selected topics.
*** Prerequisite: MATH 222 and 323 with grades of at least 60% or MATH 222 and or permission of the instructor. ***

MATH 423 3:3-0
Modern Algebra II
Continuation of Modern Algebra I with further study of rings, groups and fields.
*** Prerequisite: MATH 323 with a grade of at least 60% ***

MATH 424 3:3-0
Applied Algebra
This is a course in applications of algebra to a selection of topics concerning enumeration, coding, finite state machines and cryptography.
*** Prerequisite: MATH 223 or 323 with a grade of at least 60% ***

MATH 426 3:3-0
Combinatorial Matrix Theory
A survey of some of the topics from combinatorial matrix theory including: spectral graph theory and algebraic graph theory.
***Prerequisite Math 305, 222 and 327***

MATH 427 3:3-0
Graph Theory
This is the first in-depth course in graph theory. Topics included are connectivity, Euler tours and Hamiltonian cycles, matchings, colouring problems, planarity and network flows. Stress is placed wherever possible on constructive methods of proof.
This course is a survey of topics in graph theory. Topics may include the following: matchings and factorizations, connectivity, colouring, isomorphisms, homomorphisms, automorphism groups and transitive graphs, extremal problems, adjacency matrices, spectral graph theory, strongly regular graphs, Cayley graphs, Ramsey theory and random graphs.
*** Prerequisite: MATH 223 and 327, or 329, or CS 310, with a grade of at least 60% or permission of the Department Head. ***
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>Title</th>
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| MATH 431    | 3:3-0        | Differential Geometry I  
Differential invariants of curves and surfaces in Euclidean three-space.  
*** Prerequisite: MATH 217 with a minimum grade of 60% *** |
| MATH 432    | 3:3-0        | Differential Geometry II  
Continuation of topics covered in Differential Geometry I.  
*** Prerequisite: MATH 431 with a minimum grade of 60% *** |
| MATH 441    | 3:3-0        | General Topology  
An introduction to point set topology including separation axioms, compactness, connectedness, continuous functions and metric spaces.  
***Prerequisite: MATH 305 with a minimum grade of 60%*** |
| MATH 461    | 3:3-0        | Numerical Analysis II  
***Prerequisite: MATH 361 or CS 361, with a minimum grade of 60%*** |
| MATH 481    | 3:3-0        | Partial Differential Equations  
Classification and basic properties of equations, separation of variables, Fourier series, Sturm-Liouville theory, Fourier and Laplace transforms.  
*** Prerequisite: MATH 381 with a minimum grade of 60% *** |
| MATH 482    | 3:3-0        | Laplace Transforms  
*** Prerequisite: MATH 217 and 312 with minimum grades of 60% *** |
| MATH 485    | 3:3-0        | Introduction to Functional Analysis  
Metric, normed linear and inner-product spaces, linear operators and fixed point theorems. Spectral decompositions the Stone-Weierstrass theorem, applications.  
*** Prerequisite: MATH 305 and 312 and 313 with grades of at least 60% *** |
| STAT 252    | 3:3-0        | Introduction to Statistical Inference  
Sampling distribution theory and the Central Limit Theorem; large sample theory; methods of estimation and hypothesis testing including maximum likelihood estimation, likelihood ratio testing, and confidence interval construction.  
*** Prerequisite: STAT 251 with a grade of at least 60% *** |
STAT 342 3:3-0
Biostatistics
This course will present relevant, up-to-date coverage of research methodology using careful explanations of basic statistics and how they are used to address practical problems that arise in the medial and public health settings. Through this course, students will learn to interpret and examine data by applying common statistical tools to the biostatistical, medical, and public health fields.
*** Prerequisite: STAT 160 or STAT 200 with a grade of at least 60%***
*Note: Students with credit in BIOL 341 cannot take STAT 342 for credit.*

STAT 351 3:3-0
Intermediate Probability
Multivariate random variables; conditioning; order statistics; the multivariate normal distribution; the Poisson process.
*** Prerequisite: MATH 213 and STAT 251 with grades of at least 60%***

STAT 354 3:3-1
Linear Statistical Models
Simple linear regression; multiple linear regression; diagnostics and remedial measures for regression models; remedial measures and alternative regression techniques; multicollinearity diagnostics.
***Prerequisite: STAT 252 with a grade of at least 60%, and CS 110 and MATH 122***

STAT 357 3:3-1
Sampling Theory
Simple random sampling; systematic sampling; stratified and cluster sampling; ratio and regression estimators.
*** Prerequisite: STAT 252 with a grade of at least 60% and CS 110

STAT 362 3:3-1
Bayesian Statistics
An introduction to Bayesian methods; Bayesian inference for discrete random variables, binomial proportions, and normal means; comparisons between Bayesian and frequentist inferences; robust Bayesian methods.
*** Prerequisite: STAT 252 with a grade of at least 60% and CS 110

STAT 384 3:3-1
Categorical Data Analysis
Odds ratio; two-way and higher-way contingency tables; Chi-squared tests of independence; loglinear and logit models; multinomial response models; models for matched pairs.
*** Prerequisite: STAT 252 with a grade of at least 60% and CS 110.
* Note: It is suggested that students register for STAT 354 concurrently if possible.*
STAT 426 3:3-0
Survival Analysis
Life tables; survival distributions; types of censoring; estimation of and interface for basic survival quantities; proportional hazards regression model; planning and design of clinical trials.
*** Prerequisite: STAT 351 with a grade of at least 60% ***

STAT 441 3:3-0
Stochastic Calculus with Applications to Finance
Processes derived from Brownian motion; the Ito integral and Ito's formula; applications of Ito's formula in financial modelling, especially within the context of the Black-Scholes option pricing model.
*** Prerequisite: STAT 351 with a grade of at least 60% ***

STAT 451 3:3-0
Advanced Probability
Probability measures; distribution functions; sequences of random variables; characteristic functions; modes of convergence; convergence theorems; weak and strong laws of large numbers; Central Limit Theorem.
*** Prerequisite: STAT 351 with a grade of at least 60% ***

STAT 452 3:3-0
Advanced Statistical Inference
Detailed theoretical development of statistical inference; statistical models; exponential families; sufficiency; completeness; properties of point estimation; testing hypotheses and confidence regions; asymptotic properties of estimators. *** Prerequisite: STAT 351 and STAT 252 with grades of at least 60% ***

STAT 454 3:3-1
Applied Multivariate Analysis
Review of multivariate normal distribution; inferences about a mean vector; multivariate linear regression analysis; principal components; factor analysis; canonical correlation analysis.
*** Prerequisite: STAT 351 and STAT 354 with grades of at least 60% ***

STAT 456 3:3-0
Applied Stochastic Processes
An introduction to stochastic processes; Markov chains; Poisson processes; renewal processes; Brownian motion; simulation.
*** Prerequisite: STAT 351 with a grade of at least 60% ***
* Note: Credit can be earned for only one of STAT 456 and ACSC 456. *

STAT 471 3:3-1
Time Series Analysis
Types of time series; stationarity; autoregressive integrated moving average models; modelling and forecasting; parameter estimation; diagnostic checking; prediction; residual analysis.
*** Prerequisite: STAT 351 and STAT 354 with grades of at least 60% ***
**STAT 485**  
3:3-1  
Design and Analysis of Experiments  
Theory and application of analysis of variance for standard experimental designs including blocked, nested, factorial, Latin square, and split-plot designs; fixed and random effects; multiple comparisons; analysis of covariance.  
***Prerequisite: STAT 351 and STAT 354 with grades of at least 60%***

**Effective date All Items: 201730**

### 3.0 Department of Mathematics and Statistics

**MATH 103**  
3:3-Q  
Applied Calculus I  
Differentiation of algebraic, exponential, and logarithmic functions. Optimization, curve sketching, and integration by substitution.  
***Prerequisite: Precalculus 30 or Mathematics B30 with a grade of at least 65% or AMTH 092 with a grade of at least 80%, or Math102***  
*Note: Although Math 103 leads to Math 112, students who require three or more calculus-based courses should take Math 110 instead of Math 103. Students will only receive credit for one of MATH 103 or 110*

**MATH 112**  
3:3-Q  
Applied Calculus II  
An introduction to calculus in two and three variables, first-order differential equations, infinite series, and calculus of trigonometric functions.  
***Prerequisites: MATH 103 and Precalculus 30, or MATH 110***  
*Note: MATH 112 is a terminal course and is not intended for students who require further calculus courses. Students will receive credit for only one of MATH 111 and 112*

**STAT 160**  
3:3-Q  
Introductory Statistics  
A comprehensive introduction to probability, probability distributions, sampling distributions, basic techniques of statistical inference, analysis of variance, linear regression, inference for categorical variables, and nonparametric statistics.  
***Prerequisite: Precalculus 30, or MATH B30 and MATH C30, or MATH 127***  
*Note: STAT 160 is designed to provide a comprehensive single semester introduction to statistical techniques and is intended for students majoring in statistics, actuarial science, or any other program requiring a detailed knowledge of statistics. Students who receive credit for STAT 160 may not receive credit for STAT 100 or STAT 200*