

Minutes of the Fifth Meeting of Senate
Friday, March 12, 2021
3:00 – 5:00 pm
Via Zoom

Present: A. Abd-El-Aziz (Chair), D. Sutton (Secretary to Senate) R. Bissessur , A. Braithwaite, M. Buote, B. Campbell, E. Côté, D. Dahn, R. Dennis, L. Doiron, A. Doyle, N. Etkin, A. Fitzgerald, K. Gottschall-Pass, L. Heider, J. Heartz, G. Keefe, N. Kujundzic, M. LeClair, T. Mady, J. MacDonald, R. MacDonald, K. Mears, W. Montelpare, J. Moran, D. Moses, M. Murray, J. McIntyre, M. Nassar, J. Perry, W. Peters, J. Podger, R. Raiswell, C. Ryan , J. Spears, J. Stewart, C. Stevenon, B. Waterman, M. Arfkan

Guests: D. McCardle, N. Phillips, P. Smith

Regrets: D. Coll, T. Ngo, J. MacIntyre, W. Montelpare, C. Murray

Recorder: M. Arbing

President Abd-El-Aziz called the meeting to order at 3:01 p.m.

1. **Approval of Agenda**
MOTION (L. Doiron/B. Waterman) to approve the agenda as presented. UNANIMOUSLY CARRIED
2. **Approval of Minutes – February 12, 2021**
MOTION (L. Doiron/C. Ryan) to approve the minutes of February 12, 2021 as presented with an edit to attendees. UNANIMOUSLY CARRIED
3. **Business Arising**

President Abd-El-Aziz indicated that the Senate Steering Committee spoke about the following three items and felt it important that these items be on the agenda for each Senate meeting for an update until each is finalized.

a. Update on Convocation

Dr. Kathy Gottschall-Pass reported that work is underway to clarify the logistics for convocation this year, given the pandemic situation. A dual component convocation, using both virtual and in-person components, in adherence to Chief Public Health Office directives. The dates for convocation are as follows:

May 14, 2021

Faculty of Veterinary Medicine

Tuesday, May 26, 2021

Faculty of Arts (morning)

Faculty of Education (afternoon)

Wednesday, May 27

Faculty of Business (morning)

Faculty of Sustainable Design Engineering (afternoon)

Thursday, May 28, 2021

Faculty of Nursing (morning)

Faculty of Science (afternoon)

Dr. Gottschall-Pass will provide an update at the April Senate meeting.

b. Update on Summer 2021 Semester

Dr. Kathy Gottschall-Pass reported that Summer 2021 courses are primarily online with a few exceptions.

Dr. Gottschall-Pass will provide an update at the April Senate meeting.

c. Update on Fall 2021 Semester

Dr. Kathy Gottschall-Pass indicated that planning is underway for Fall 2021 semester, both in-person and virtual, but until it is closer and we know what the status of the pandemic is, we will not be able to finalize plans.

Dr. Gottschall-Pass will provide an update at the April Senate meeting.

4. President's Report

President Abd-El-Aziz informed Senators that MPHEC has approved the Doctor of Applied Health Program. The two co-directors of the Program, Dr. William Montelpare and Dr. Christina Murray are working with the the Vice-President Academic and Research, Dean of Graduate Studies and the Associate Vice-President of Students and Registrar on the logistical details for a July 2022 start.

President Abd-El-Aziz asked C. Ryan, representing the Senate Steering Committee, to provide an update on two Senate committees.

Senate Committee on Scholarships and Awards

C. Ryan indicated that the Student Union updates the student representatives and has advised that Jose Gonzalez will be the student representative on the Senate Committee on Scholarships and Awards.

Senate Committee on Academic and Student Appeals

C. Ryan indicated that the Senate Committee on Academic and Student Appeals had three vacancies for student representatives. The Student Union has provided the following representatives: Jeremy Hartz, Jessica Perry and Star Brown.

There were also two faculty vacancies, one from the Faculty of Arts and one from the Faculty of Science. A call for nominations, held in advance of today's meeting, resulted in R. Raiswell (Faculty of Arts) and L. Doiron (Faculty of Science). C. Ryan called for a further nomination from the floor for each of these vacancies with no additional nominations put forth.

5. Senate Reports

a. Academic Planning and Curriculum Committee

i. Fifth Curriculum Report

Faculty of Arts

OMNIBUS MOTION (K. Gotschall-Pass/ C. Ryan) that motions 1-2 be approved as noted below: UNANIMOUSLY CARRIED

- 1) To approve that a new course entitled FR 4480 Préparation au BÉd Français langue seconde I be approved as proposed.**

(See details on the Curriculum Report Attached – Pages 5-7)

- 2) To approve a new course entitled FR 4481 Préparation au BÉd Français langue seconde II be approved as proposed.**

(See details on the Curriculum Report Attached – Pages 8-10)

OMNIBUS MOTION (K. Gotschall-Pass/ N. Kujundzik) that motions 3-5 be approved as noted below: UNANIMOUSLY CARRIED

It is noted that the Curriculum Summary Sheet (page 4), there is an error under Psychology. PSY3910/JS3920 should be PSY3910/DSJS3910.

- 3) To approve the deletion of Psychology 3620 Ergonomics.**

(See details on the Curriculum Report Attached – Page 11)

- 4) To approve the deletion of Psychology 2610 Sensation and Perception I.**

(See details on the Curriculum Report Attached – Page 12)

- 5) To approve the deletion of Psychology 2620 Sensation and Perception II.
(See details on the Curriculum Report Attached – Page 13)

OMNIBUS MOTION (K. Gotschall-Pass/ N. Kujundzik) that motions 6-10 be approved as noted below: UNANIMOUSLY CARRIED

- 6) To approve the change in prerequisite for Psychology 3850 Cultural Psychology be approved as proposed.
(See details on the Curriculum Report Attached – Page 14)
- 7) To approve the change in prerequisite for Psychology 3910 Psychology of Women be approved as proposed.
(See details on the Curriculum Report Attached – Page 15)
- 8) To approve the change in prerequisite for Psychology 3950 Gender and Violence approved as proposed.
(See details on the Curriculum Report Attached – Page 16)
- 9) To approve the change in prerequisite for Psychology 4350 Gender and Sexuality be approved as proposed.
(See details on the Curriculum Report Attached – Page 17)
- 10) To approve the change in prerequisite for Psychology 4130 Psychology of Social Class be approved as proposed.
(See details on the Curriculum Report Attached – Page 18)

OMNIBUS MOTION (K. Gotschall-Pass/ J. Moran) that motions 11-12 be approved as noted below: UNANIMOUSLY CARRIED

- 11) To approve the To have the change in the course description for History 3310 History of Prince Edward Island— Pre-Confederation be approved as proposed.
(See details on the Curriculum Report Attached – Page 19)
- 12) To approve the To have the change in the course description for HIST 3320 History of Prince Edward Island – Post Confederation be approved as proposed.
(See details on the Curriculum Report Attached – Page 20)

MOTION (K. Gotschall-Pass/ J. Moran) that motion 13 be approved as noted below: UNANIMOUSLY CARRIED

- 13) To approve the change in the course title and description for HIST 4890 20th Century Prince Edward Island be approved as proposed.**

(See details on the Curriculum Report Attached – Page 21)

Faculty of Science

MOTION (K. Gotschall-Pass/ N. Etkin) that motion 14 be approved as noted below:

UNANIMOUSLY CARRIED

- 14) To approve the change in prerequisite for KINE 3120 Introduction to Biomechanics be approved as proposed.**

15)

(See details on the Curriculum Report Attached – Page 24)

MOTION (K. Gotschall-Pass/ N. Etkin) that motion 15 be approved as noted below:

UNANIMOUSLY CARRIED

- 15) To approve the change in course title, description and prerequisite for BIO 4030 Developmental Biology be approved as proposed**

(See details on the Curriculum Report Attached – Page 25)

**OMNIBUS MOTION (K. Gotschall-Pass/ N. Etkin) that motions 16-34 be approved as noted below:
UNANIMOUSLY CARRIED**

- 16) To approve the change in prerequisite for BIO 3120 History of Biology be approved as proposed.**

(See details on the Curriculum Report Attached – Page 26)

- 17) To approve the change in prerequisite for BIO 3240 Comparative Vertebrate Anatomy be approved as proposed**

(See details on the Curriculum Report Attached – Page 27)

- 18) To approve the To have the prerequisite change for BIO 3510 Ornithology be approved as proposed.**

(See details on the Curriculum Report Attached – Page 28)

- 19) To approve the change in prerequisite for BIO 3610 Biology of Fishes be approved as proposed.**

(See details on the Curriculum Report Attached – Page 29)

- 20) To approve the change in prerequisite for BIO 3660 Plant-Animal Interactions be approved as proposed.**
(See details on the Curriculum Report Attached – Page 20)
- 21) To approve the change in prerequisite for BIO 3710 Life of Mammals be approved as proposed.**
(See details on the Curriculum Report Attached – Page 31)
- 22) To approve the change in prerequisite for BIO 3750 Medical Microbiology be approved as proposed.**
(See details on the Curriculum Report Attached – Page 32)
- 23) To approve the change in prerequisite for BIO 4010 Human Physiology & Pathophysiology be approved as proposed.**
(See details on the Curriculum Report Attached – Page 33)
- 24) To approve the change in prerequisite for BIO 4020 Comparative & Environmental Vertebrate Physiology be approved as proposed.**
(See details on the Curriculum Report Attached – Page 34)
- 25) To approve the change in prerequisite for BIO 4050 Medical Biology be approved as proposed.**
(See details on the Curriculum Report Attached – Page 35)
- 26) To approve the change in prerequisite for BIO 4110 Principles of Wildlife Biology be approved as proposed.**
(See details on the Curriculum Report Attached – Page 36)
- 27) To approve the change in prerequisite for BIO 4130 Conservation Genetics be approved as proposed.**
(See details on the Curriculum Report Attached – Page 37)
- 28) To approve the change in prerequisite for BIO 4350 The Biology of Sex approved as proposed.**
(See details on the Curriculum Report Attached – Page 38)
- 29) To approve the change in prerequisite for BIO 4520 Biogeography and Macroecology be approved as proposed.**
(See details on the Curriculum Report Attached – Page 39)

- 30) To approve the change in prerequisite for BIO 4620 Watershed Ecology be approved as proposed.**

(See details on the Curriculum Report Attached – Page 40)

- 31) To approve the change in prerequisite for BIO 4650 Marine Community Ecology be approved as proposed .**

(See details on the Curriculum Report Attached – Page 41)

- 32) To approve the e change in prerequisite for BIO 4710 Molecular Biotechnology be approved as proposed.**

(See details on the Curriculum Report Attached – Page 42)

- 33) To approve the change in prerequisite for BIO 4750 Basic and Clinical Immunology be approved as proposed.**

(See details on the Curriculum Report Attached – Page 43)

- 34) To approve the change in prerequisite for BIO 4850 Environmental Toxicology be approved as proposed.**

(See details on the Curriculum Report Attached – Page 44)

**MOTION (K. Gotschall-Pass/ N. Etkin) that motion 35 be approved as noted below:
UNANIMOUSLY CARRIED**

- 35) To approve the addition of a new note under the “Requirements for a Major in Biology” be approved as proposed.**

(See details on the Curriculum Report Attached – Page 45)

**MOTION (K. Gotschall-Pass/ N. Etkin) that motion 36 be approved as noted below:
UNANIMOUSLY CARRIED**

- 36) To approve the change in prerequisite for CHEM 2020 Environmental Chemistry be approved as proposed.**

(See details on the Curriculum Report Attached – Page 46)

**MOTION (K. Gotschall-Pass/ N. Etkin) that motion 37 be approved as noted below:
UNANIMOUSLY CARRIED**

- 37) To approve the changes in the electives required for a Chemistry Major as proposed.**

(See details on the Curriculum Report Attached – Page 47)

**MOTION (K. Gotschall-Pass/ N. Etkin) that motion 38 be approved as noted below:
UNANIMOUSLY CARRIED**

- 38) To approve the changes in the electives required for an Honours in Chemistry as proposed.**

(See details on the Curriculum Report Attached – Page 48)

**MOTION (K. Gotschall-Pass/ N. Etkin) that motion 39 be approved as noted below:
UNANIMOUSLY CARRIED**

- 39) To approve the approve the changes to the Requirements for a Minor in Environmental Studies as proposed**

(See details on the Curriculum Report Attached – Pages 49-51)

**MOTION (K. Gotschall-Pass/ N. Etkin) that motion 40 be approved as noted below:
UNANIMOUSLY CARRIED**

- 40) To approve the changes to the Specialization in Environmental Thought and Practice as proposed.**

(See details on the Curriculum Report Attached – Page 52-53)

OMNIBUS MOTION (K. Gotschall-Pass/ L. Doiron) that motions 41-46 be approved as noted below: UNANIMOUSLY CARRIED

- 41) To approve the change in the course description for CS 1910 Computer Science I be approved as proposed.**

(See details on the Curriculum Report Attached – Page 54)

- 42) To approve the change in prerequisite for CS 2520 Computer Organization and Architecture be approved as proposed.**

(See details on the Curriculum Report Attached – Page 55)

- 43) To approve the change in the course description and prerequisite for CS 2910 Computer Science III be approved as proposed.**

(See details on the Curriculum Report Attached – Page 56)

- 44) To approve the change in the course title and description for CS 3620 Software Design and Architecture be approved as proposed.**

(See details on the Curriculum Report Attached – Page 57)

- 45) To approve the change in the course description and prerequisite for CS 4810 Software Engineering be approved as proposed.**

(See details on the Curriculum Report Attached – Page 58)

**MOTION (K. Gotschall-Pass/ D. Dahn) that motion 47 be approved as noted below:
UNANIMOUSLY CARRIED**

- 46) To approve the change in the course description for CS 4820 Software System Project be approved as proposed.**

(See details on the Curriculum Report Attached – Page 59)

**OMNIBUS MOTION (K. Gotschall-Pass/ D. Dahn) that motion 48-54 be approved as noted below:
UNANIMOUSLY CARRIED**

- 47) To approve the deletion PHYS 2220 Modern Physics for Life Sciences.**

(See details on the Curriculum Report Attached – Page 60)

- 48) To approve the change in course description and prerequisite for PHYS 2020 Mechanics as proposed.**

(See details on the Curriculum Report Attached – Page 61)

- 49) To approve the change in course title, description and prerequisite for PHYS 2610 Energy, Environment and the Economy as proposed.**

(See details on the Curriculum Report Attached – Page 62)

- 50) To approve the change in course number, course description and prerequisite for PHYS 3820 Computational Physics as proposed.**

(See details on the Curriculum Report Attached – Page 63)

- 51) To approve the change in course number, title, description and prerequisite for PHYS 4410 Experimental Physics as proposed.**

(See details on the Curriculum Report Attached – Page 64)

- 52) To approve the change in course title, description and prerequisites for PHYS 3420 Introduction to Biomedical Physics as proposed.**

(See details on the Curriculum Report Attached – Page 65)

- 53) To approve the change in course description and prerequisites for PHYS 3520 Biomedical Imaging as proposed.**

(See details on the Curriculum Report Attached – Page 66)

- 54) To approve the change in course description and prerequisites for PHYS 3520 Biomedical Imaging as proposed.**

(See details on the Curriculum Report Attached – Page 67)

**MOTION (K. Gotschall-Pass/ D. Dahn) that motion 55 be approved as noted below:
UNANIMOUSLY CARRIED**

55) To approve the changes to the Minor in Medical and Biological Physics as proposed.

(See details on the Curriculum Report Attached – Pages 68-69)

**MOTION (K. Gotschall-Pass/ D. Dahn) that motion 56 be approved as noted below:
UNANIMOUSLY CARRIED**

56) To approve the the changes to the Requirements for a Major in Physics as proposed.

(See details on the Curriculum Report Attached – Pages 70-71)

**MOTION (K. Gotschall-Pass/ D. Dahn) that motion 57 be approved as noted below:
UNANIMOUSLY CARRIED**

57) To approve the the changes to the Specialization in Medical and Biological Physics as proposed.

(See details on the Curriculum Report Attached – Pages 72-73)

**MOTION (K. Gotschall-Pass/ D. Dahn) that motion 58 be approved as noted below:
UNANIMOUSLY CARRIED**

58) To approve the changes to the Requirements for Honours in Physics as proposed.

(See details on the Curriculum Report Attached – Pages 74-75)

**MOTION (K. Gotschall-Pass/ D. Dahn) that motion 59 be approved as noted below:
UNANIMOUSLY CARRIED**

59) To approve the changes to the Specialization in Medical and Biological Physics (Honours) as proposed.

(See details on the Curriculum Report Attached – Page 76-77)

**MOTION (K. Gotschall-Pass/ G. Keefe) that motion 60 be approved as noted below:
UNANIMOUSLY CARRIED**

60) To approve the deletion of the BSc with a Major in Physics for Engineering Diploma Students.

(See details on the Curriculum Report Attached – Pages 78-79)

Faculty of Graduate Studies

**MOTION (K. Gotschall-Pass/ G. Keefe) that motion 62-63 be approved as noted below:
UNANIMOUSLY CARRIED**

- 61) To approve a new course VPM 8448 Advanced Diagnostic Aquatic Pathology be approved as proposed**
(See details on the Curriculum Report Attached – Pages 82-84)

**OMNIBUS MOTION (K. Gotschall-Pass/ G. Keefe) that motion 62-63 be approved as noted below:
UNANIMOUSLY CARRIED**

- 62) To approve to revise the Prescribed Studies section of the Master of Science Program - Veterinary Medicine as proposed**
(See details on the Curriculum Report Attached – Page 84)

- 63) To revise the Prescribed Studies section of the Doctor of Philosophy Program - Veterinary Medicine as proposed**
(See details on the Curriculum Report Attached – Pages 85-86)

Registrar's Office

OMNIBUS MOTION (K. Gotschall-Pass/ R. Bissesseur) that motion 64-66 be approved as noted below:

- 64) To add a note to UPEI 1010 Academic Writing to allow credit for only one of the First Year Experience courses (UPEI 1010, 1020 or 1030).**
(See details on the Curriculum Report Attached – Page 87)
- 65) To add a note to UPEI 1020 Inquiry studies to allow credit for only one of the First Year Experience courses (UPEI 1010, 1020 or 1030).**
(See details on the Curriculum Report Attached – Page 88)
- 66) To add a note to UPEI 1030 University Studies to allow credit for only one of the First Year Experience courses (UPEI 1010, 1020 or 1030).**
(See details on the Curriculum Report Attached – Page 89)

MOTION (R. Raiswell/L. Doiron) that motions 64, 65 and 66 be tabled so that the Vice-President Academic and Research and the Academic and Planning Curriculum Committee, as she sees fit, to come up with a proposal to request students to take these courses in the early years not later years. CARRIED.

The Chair of the Senate asked the Vice-President Academic and Research to provide the Senate with an update on her meetings with APCC and some of the instructors of these courses.

MOTION (R. MacDonald/L. Doiron) to extend Senate by 15 minutes. UNANIMOUSLY CARRIED.

6. Other Business

D. Moses welcomed K. Mears to her first Senate meeting.

7. Adjournment

Motion (L. Doiron/B. Campbell) that the meeting be adjourned at 5:14 p.m.

Respectfully submitted,
Donna Sutton
Secretary of Senate

Attachment: Fifth Curriculum Report March 12, 2021



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SUMMARY OF FACULTY OF ARTS MOTION'S 1-20

Faculty of Arts
Summary of Calendar and Curriculum Changes**Modern Languages**

- New Course – FR 4480
- New Course – FR 4481

Psychology

- Course Deletion – PSY 3620
- Course Deletion – PSY 2610
- Course Deletion – PSY 2620
- Prerequisite Change – PSY 3850/DSJS 3840
- Prerequisite Change – PSY 3910/DSJS 3920
- Prerequisite Change – PSY 3950/DSJS 3950
- Prerequisite Change – PSY 4350/DSJS 4350
- Prerequisite Change – PSY 4130/DSJS 4130

History

- Course Description Change – HIST 3310
- Course Description Change – HIST 3320
- Course Title and Description Change – HIST 4890

NEW COURSE PROPOSAL

Motion #1

Faculty/School: **Arts**

Department/Program(s): **Modern Languages**

MOTION: That a new course entitled FR 4480 Préparation au BÉd Français langue seconde I be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | 4480 Préparation au BÉd Français langue seconde I |
| Description | <p>This course aims to prepare students for the UPEI BEd Français Langue Seconde program. It will focus primarily on oral and written communication in order to help students reach the B2 level on the DELF exam. In this asynchronous course, students will direct their own learning through activities based on real-world, everyday contexts. This learning includes oral (expression and comprehension) and written (expression and comprehension) components. Three hours a week.</p> <p>Note: This course does not count for credit toward the Major in French or the Minor in French, but does count toward the six semester hours in French required for admission to the UPEI Bachelor of Education Français langue seconde.</p> |
| Cross-Listing | None |
| Prerequisite/Co-Requisite | FR 2220 or French Placement Test or permission of the instructor |
| Credit(s) | 3 |
| Notation | |

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 20 **Is there an Enrolment Cap:** No

If there is an enrolment limit, please explain.

Rationale for New Course: We trialed this course as a Special Topics (FR 3090) in Fall 2020. The PEI teacher retention strategy must take into account the particular French first and second language needs of the PEI population. The breadth of their mandate often overwhelms our new teachers in Francophone schools. They not only have to teach the appropriate curriculum, but they also need to adapt their teaching to a new clientele that often has few opportunities to speak French outside of the school setting. They must work with the parent community to build a stronger French environment outside of school, as well as create a positive French atmosphere in the classroom. Juggling these requirements while teaching several subjects and grade levels because of the small size of some of our schools is a constant challenge. The Canadian Teachers Federation report "Teachers in a Francophone Minority Setting: exploring theme" (2014) summarizes one of the realities that this project would like to address well: "Teachers feel helpless in attempting to address the challenge of promoting the French language, combatting assimilation and developing the students' sense of belonging" (p.42). For our French Immersion teachers, the insecurity associated with "inconsistent language skill levels" (ACPI, p.21) is

NEW COURSE PROPOSAL

Motion #1

often a source of stress that can cause teachers to either leave the profession or transfer to the English program, where the task seems less daunting. In Prince Edward Island, we regularly test the French oral proficiency of our new teachers and it is mandatory to obtain the Superior level (New Brunswick OPI evaluation) to access permanent positions. Because of the limited availability of French teachers, we must have a mechanism in place to work with prospective teachers to attain this level prior to entering the school system or to support them in improving their language skills if they obtain a position. In both cases, a supportive language coaching system can play an important role. This course and FR 4481 are part of a strategy to help students to improve their French skills prior to beginning the BEd – FLS program. Students are eligible for a scholarship from Education and Lifelong Learning PEI – Teacher Recruitment and Retention Strategy, equivalent to their registration fees if they satisfy the three following requirements: minimum average of 80% in the course; minimum average of 70% in the DELF exam; acceptance to and registration in the UPEI BEd – FSL.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Resources Required: None

In offering this course will UPEI require facilities or staff at other institutions: No

If yes, please explain

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Carlo Lavoie | January 15, 2021 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September/2019



NEW COURSE PROPOSAL

Motion #1

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

FR 4480 Préparation au BÉd Français langue seconde I

Library Resource Requirements (*to be completed by the liaison and/or collections librarian*)

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - Catalogue search for books (print and online) with the following subjects:
 - Français (Langue) -- Étude et enseignement
 - French (language) -- Study and teaching

Retrieves ~ 200 unique titles
- Subscription Dependencies (in interdisciplinary packages) -- *Not applicable*
- Physical Space in Library (other than holdings, explain) -- *Not applicable*
- Library Administrative/Research Support

The subject librarian conducts in-person instruction and one-on-one research consultations with students and faculty, as requested.

New resources needed to support this proposal:

-- *No new resources required*

| | |
|--|------------------|
| Date Received by Liaison/Collections Librarian | January 27, 2021 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | February 1, 2021 |

Form Version: May/2020

NEW COURSE PROPOSAL

Motion #2

Faculty/School: **Arts**

Department/Program(s): **Modern Languages**

MOTION: That a new course entitled FR 4481 Préparation au BÉd Français langue seconde II be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | 4481 Préparation au BÉd Français langue seconde II |
| Description | <p>This course complements FR-4480, and also aims to prepare students for the UPEI BEd Français Langue Seconde program. It will focus primarily on oral and written communication in order to help students reach the B2 level on the DELF exam. In this asynchronous course, students will direct their own learning through activities based on real-world, everyday contexts. This learning includes oral (expression and comprehension) and written (expression and comprehension) components.</p> <p>Three hours a week.</p> <p>Note: This course does not count for credit toward the Major in French or the Minor in French, but does count toward the six semester hours in French required for admission to the UPEI Bachelor of Education Français langue seconde.</p> |
| Cross-Listing | None |
| Prerequisite/Co-Requisite | FR 2220 or French Placement Test or permission of the instructor |
| Credit(s) | 3 |
| Notation | |

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 20 **Is there an Enrolment Cap:** No

If there is an enrolment limit, please explain.

Rationale for New Course: We trialed this course as a Special Topics (FR 4090) in Winter 2021. The PEI teacher retention strategy must take into account the particular French first and second language needs of the PEI population. The breadth of their mandate often overwhelms our new teachers in Francophone schools. They not only have to teach the appropriate curriculum, but they also need to adapt their teaching to a new clientele that often has few opportunities to speak French outside of the school setting. They must work with the parent community to build a stronger French environment outside of school, as well as create a positive French atmosphere in the classroom. Juggling these requirements while teaching several subjects and grade levels because of the small size of some of our schools is a constant challenge. The Canadian Teachers Federation report "Teachers in a Francophone Minority Setting: exploring theme" (2014) summarizes one of the realities that this project would like to address well: "Teachers feel helpless in attempting to address the challenge of promoting the French language,

NEW COURSE PROPOSAL

Motion #2

combatting assimilation and developing the students' sense of belonging" (p.42). For our French Immersion teachers, the insecurity associated with "inconsistent language skill levels"(ACPI, p.21) is often a source of stress that can cause teachers to either leave the profession or transfer to the English program, where the task seems less daunting. In Prince Edward Island, we regularly test the French oral proficiency of our new teachers and it is mandatory to obtain the Superior level (New Brunswick OPI evaluation) to access permanent positions. Because of the limited availability of French teachers, we must have a mechanism in place to work with prospective teachers to attain this level prior to entering the school system or to support them in improving their language skills if they obtain a position. In both cases, a supportive language coaching system can play an important role. This course and FR 4480 are part of a strategy to help students to improve their French skills prior to beginning the BEd – FLS program. Students are eligible for a scholarship from Education and Lifelong Learning PEI – Teacher Recruitment and Retention Strategy, equivalent to their registration fees if they satisfy the three following requirements: minimum average of 80% in the course; minimum average of 70% in the DELF exam; acceptance to and registration in the UPEI BEd – FSL.

Effective Term: Fall 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Resources Required: None

In offering this course will UPEI require facilities or staff at other institutions: No
If yes, please explain.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Carlo Lavoie | January 15, 2021 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September/2019

NEW COURSE PROPOSAL

Motion #2

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

FR 4481 Préparation au BÉd Français langue seconde II

Library Resource Requirements (*to be completed by the liaison and/or collections librarian*)

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - Catalogue search for books (print and online) with the following subjects:
 - Français (Langue) -- Étude et enseignement
 - French (language) -- Study and teaching**Retrieves ~ 200 unique titles**
- Subscription Dependencies (in interdisciplinary packages) -- *Not applicable*
- Physical Space in Library (other than holdings, explain) -- *Not applicable*
- Library Administrative/Research Support
The subject librarian conducts in-person instruction and one-on-one research consultations with students and faculty, as requested.

New resources needed to support this proposal:

-- No new resources required

| | |
|--|------------------|
| Date Received by Liaison/Collections Librarian | January 27, 2021 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | February 1, 2021 |

Form Version: May/2020

CALENDAR & CURRICULUM CHANGE

Motion #3

Revision is for a: **Course Deletion**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology**

MOTION: To approve the deletion of Psychology 3620 Ergonomics.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>3620 ERGONOMICS This course in applied psychology explains how to take into account human abilities and requirements in regard to tasks, equipment, facilities, and environment with an emphasis on improving satisfaction, performance, efficiency, and safety. Included for study are examples of jobs, tools, information, and buildings. An individually-designed project provides an opportunity for students to apply ergonomic principles. PREREQUISITE: Psychology 1010-1020, 2780-2790, or Engineering 1210 or permission of instructor Three hours a week</p> | <p>3620 ERGONOMICS This course in applied psychology explains how to take into account human abilities and requirements in regard to tasks, equipment, facilities, and environment with an emphasis on improving satisfaction, performance, efficiency, and safety. Included for study are examples of jobs, tools, information, and buildings. An individually-designed project provides an opportunity for students to apply ergonomic principles. PREREQUISITE: Psychology 1010-1020, 2780-2790, or Engineering 1210 or permission of instructor Three hours a week</p> |

Rationale for Change: Course no longer offered by Department of Psychology

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Tracy Doucette | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #4

Revision is for a: **Course Deletion**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology**

MOTION: To approve the deletion of Psychology 2610 Sensation and Perception I.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>2610 SENSATION AND PERCEPTION I This course examines how we see the world around us. It considers principles and theories of how visual information is received, and how it is processed and combined to produce visual images. Starting with optics of the eye, the course proceeds to the conversion of light information into nerve impulses which convey the information to the brain. The course also explains how that information is processed to produce sensations of brightness, shape, color and motion. This course also considers how these sensations are combined into an image of the world. Additional topics include aspects of light measurement, clinical aspects of optometry, and visual aesthetic perception. PREREQUISITE: Psychology 1010-1020 Three hours per week</p> | <p>2610 SENSATION AND PERCEPTION I This course examines how we see the world around us. It considers principles and theories of how visual information is received, and how it is processed and combined to produce visual images. Starting with optics of the eye, the course proceeds to the conversion of light information into nerve impulses which convey the information to the brain. The course also explains how that information is processed to produce sensations of brightness, shape, color and motion. This course also considers how these sensations are combined into an image of the world. Additional topics include aspects of light measurement, clinical aspects of optometry, and visual aesthetic perception. PREREQUISITE: Psychology 1010-1020 Three hours per week</p> |

Rationale for Change: The Department will be proposing in the future a new course that will combine the content from both PSY 2610 and 2620.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|-------------------|
| Departmental Approval: Dr. Tracy Doucette | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #5

Revision is for a: **Course Deletion**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology**

MOTION: To approve the deletion of Psychology 2620 Sensation and Perception II.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>2620 SENSATION AND PERCEPTION II</p> <p>This course examines how the more basic senses work and how they contribute to our awareness of the world. The sense of touch seems to give us direct contact with the world. The abilities to sense chemicals in the food we eat and the air we breathe guide not only what we eat but also our emotions. Sensing vibrations in air enables us to detect events out of sight and to receive both verbal and musical communications from others. These vastly different sources of information-mechanical, chemical and gravitational, as well as the electromagnetic basis of vision are sensed by specialized biological receptors that transform the information into nerve impulses. This course examines how the principles used by the brain to interpret the diverse information are surprisingly similar.</p> <p>Three hours per week</p> | <p>2620 SENSATION AND PERCEPTION II</p> <p>This course examines how the more basic senses work and how they contribute to our awareness of the world. The sense of touch seems to give us direct contact with the world. The abilities to sense chemicals in the food we eat and the air we breathe guide not only what we eat but also our emotions. Sensing vibrations in air enables us to detect events out of sight and to receive both verbal and musical communications from others. These vastly different sources of information-mechanical, chemical and gravitational, as well as the electromagnetic basis of vision are sensed by specialized biological receptors that transform the information into nerve impulses. This course examines how the principles used by the brain to interpret the diverse information are surprisingly similar.</p> <p>Three hours per week</p> |

Rationale for Change: The Department will be proposing in the future a new course that will combine the content from both PSY 2610 and 2620.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Dr. Tracy Doucette | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #6

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology/Diversity & Social Justice Studies**

MOTION: To have the change in prerequisite for Psychology 3850 Cultural Psychology be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>3850 Cultural Psychology This course investigates how culture shapes human thought, behaviour, and the field of psychology broadly. The course begins with discussion of theoretical foundations and research methods in cultural psychology, followed by the application of a cultural perspective to psychological concepts including: self and identity, relationships, development, morality and justice, emotions, cognition, and physical and psychological health. Lectures, discussion, and in-class assignments challenge students to consider the sizeable impact of culture on human life. Cross-listed with Diversity and Social Justice Studies 3840. PREREQUISITES: When taken as a psychology credit, PSY 1010-1020, and 2780-2790 or 2510. When taken as a DSJS credit, prerequisites are DSJS 1090 and one other DSJS course at the 2000+ level</p> | <p>3850 Cultural Psychology This course investigates how culture shapes human thought, behaviour, and the field of psychology broadly. The course begins with discussion of theoretical foundations and research methods in cultural psychology, followed by the application of a cultural perspective to psychological concepts including: self and identity, relationships, development, morality and justice, emotions, cognition, and physical and psychological health. Lectures, discussion, and in-class assignments challenge students to consider the sizeable impact of culture on human life. Cross-listed with Diversity and Social Justice Studies 3840. PREREQUISITES: When taken as a psychology credit, PSY 1010-1020, and 2780-2790 or 2510. When taken as a DSJS credit, prerequisites are DSJS 1090 and one other DSJS course at the 2000+ level <u>a 1000-level DSJS course and at least one other DSJS course at the 2000+ level.</u></p> |

Rationale for Change: The Department of DSJS will be proposing in the future to eliminate DSJS 1090 as a core/required course.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: No impact on current enrollments

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Tracy Doucette / Anne Braithwaite | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #7

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology/Diversity & Social Justice Studies**

MOTION: To have the change in prerequisite for Psychology 3910 Psychology of Women be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>3910 Psychology of Women This course will focus on women's development throughout the life span. Topics will include: views of the nature of women, biological influences, the socialization process and its consequences at the individual, interpersonal relationship, and societal levels, as well as recent alternative views of the psychology of women. Cross-listed with Diversity and Social Justice Studies 3910. PREREQUISITE: When taken as a Psychology credit, Psychology 1010-1020, 2780-2790, 2510 or permission of the instructor. When taken as a Diversity and Social Justice Studies credit, DSJS 1090, at least one other DSJS course at 2000 level or above, or permission of the instructor. Three hours a week</p> | <p>3910 Psychology of Women This course will focus on women's development throughout the life span. Topics will include: views of the nature of women, biological influences, the socialization process and its consequences at the individual, interpersonal relationship, and societal levels, as well as recent alternative views of the psychology of women. Cross-listed with Diversity and Social Justice Studies 3910. PREREQUISITE: When taken as a Psychology credit, Psychology 1010-1020, 2780-2790, 2510 or permission of the instructor. When taken as a Diversity and Social Justice Studies credit, <u>DSJS 1090, at least one other DSJS course at 2000 level or above a 1000-level DSJS course and at least one other DSJS course at the 2000+ level</u>, or permission of the instructor. Three hours a week</p> |

Rationale for Change: The Department of DSJS will be proposing in the future to eliminate DSJS 1090 as a core/required course.

Effective Term: FALL 2021

Implications for Other Programs: No implications

Impact on Students Currently Enrolled: No impact on current enrollments

Authorization

Date:

| | |
|---|-------------------|
| Departmental Approval: Dr. Tracy Doucette/Ann Braithwaite | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #8

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology/Diversity & Social Justice Studies**

MOTION: To have the change in prerequisite for Psychology 3950 Gender and Violence approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|--|
| <p>3950 Gender and Violence</p> <p>This course investigates the role of gender in violence and abuse. Adopting a critical perspective, the course considers the limitations of mainstream social constructions of forms of gender-based violence. Topics for consideration may include offenses such as domestic violence, stranger and acquaintance rape, sexual assault, and sexual harassment. The course also explores how traditional, heteronormative understandings of domestic violence may fail to reflect accurately the experience of violence in GLBT relationships. Consideration is given to the psychological consequences of victimization, as well as to how societal institutions could better address the needs of both victims and offenders.</p> <p>Cross-listed with Diversity and Social Justice Studies 3950 and Family Science 3950.</p> <p>PREREQUISITES: When taken for Psychology credit, PSY 1010-1020, and 2780-2790 or 2510. When taken for DSJS credit, DSJS 1090 and 1 other DSJS course at the 2000+ level. For students taking the course as FSC 3950, FSC 3810 as a co-requisite or prerequisite</p> | <p>3950 Gender and Violence</p> <p>This course investigates the role of gender in violence and abuse. Adopting a critical perspective, the course considers the limitations of mainstream social constructions of forms of gender-based violence. Topics for consideration may include offenses such as domestic violence, stranger and acquaintance rape, sexual assault, and sexual harassment. The course also explores how traditional, heteronormative understandings of domestic violence may fail to reflect accurately the experience of violence in GLBT relationships. Consideration is given to the psychological consequences of victimization, as well as to how societal institutions could better address the needs of both victims and offenders.</p> <p>Cross-listed with Diversity and Social Justice Studies 3950 and Family Science 3950.</p> <p>PREREQUISITES: When taken for Psychology credit, PSY 1010-1020, and 2780-2790 or 2510. When taken for DSJS credit, <u>DSJS 1090 and 1 other DSJS course at the 2000+ level</u> a 1000-level DSJS course and at least one other DSJS course at the 2000+ level. For students taking the course as FSC 3950, FSC 3810 as a co-requisite or prerequisite</p> |

Rationale for Change: The Department of DSJS will be proposing in the future to eliminate DSJS 1090 as a core/required course.

Effective Term: FALL 2021

Implications for Other Programs: No implications

Impact on Students Currently Enrolled: No impact on current enrollments

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Dr. Tracy Doucette/Ann Braithwaite | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #9

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology/Diversity & Social Justice Studies**

MOTION: To have the change in prerequisite for Psychology 4350 Gender and Sexuality be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>4350 Gender and Sexuality This course provides a critical examination of gender and sexuality. It explores the individual, interpersonal, and societal constructions of gender and sexuality within varying biological, cultural, and historical contexts; and uses psychological theory and research to analyze experiences and representations of gender and sexuality. Cross-listed with Diversity and Social Justice Studies 4350. PREREQUISITE: When taken as a Psychology credit, Psychology 1010-1020, 2420, 2780-2790, one of 3010, 3020, 3910, or 3920, OR permission of the instructor. When taken as a Diversity and Social Justice Studies credit, DSJS 1090, at least two other DSJS courses, at least one of which is at 3000 level or above, OR permission of the instructor. Three hours a week seminar</p> | <p>4350 Gender and Sexuality This course provides a critical examination of gender and sexuality. It explores the individual, interpersonal, and societal constructions of gender and sexuality within varying biological, cultural, and historical contexts; and uses psychological theory and research to analyze experiences and representations of gender and sexuality. Cross-listed with Diversity and Social Justice Studies 4350. PREREQUISITE: When taken as a Psychology credit, Psychology 1010-1020, 2420, 2780-2790, one of 3010, 3020, 3910, or 3920, OR permission of the instructor. When taken as a Diversity and Social Justice Studies credit, <u>DSJS 1090, at least two other DSJS courses, at least one of which is at 3000 level or above, a 1000-level DSJS course and at least two other DSJS courses at the 2000+ level</u>, OR permission of the instructor. Three hours a week seminar</p> |

Rationale for Change: The Department of DSJS will be proposing in the future to eliminate DSJS 1090 as a core/required course.

Effective Term: FALL 2021

Implications for Other Programs: No implications

Impact on Students Currently Enrolled: No impact on current enrollments

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Dr. Tracy Doucette/Ann Braithwaite | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #10

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Psychology/DSJS**

MOTION: To have the change in prerequisite for Psychology 4130 Psychology of Social Class be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>4130 Psychology of Social Class</p> <p>This course explores the role that social stratification plays in human thought, behaviour and experience. It studies the history of social stratification and the relatively recent emergence of a class based society. It examines some of the ways that psychologists and other social scientists have integrated social class into their work. A rigorous interrogation of everyday experiences of economic injustice is central to this course. Topics may include the way that social class intersects with a range of identity categories, classism, poverty, inequality, commodity fetishism, and consumer society.</p> <p>Cross-listed with Diversity and Social Justice Studies 4130.</p> <p>PREREQUISITE: Psychology 1010-1020, 2020 and 2780-2790, or 2510, or Permission of Instructor. If taking DSJS 4130, the prerequisites are DSJS 1090 and two other DSJS courses at the 3000 or 4000 level.</p> <p>Three hours a week</p> | <p>4130 Psychology of Social Class</p> <p>This course explores the role that social stratification plays in human thought, behaviour and experience. It studies the history of social stratification and the relatively recent emergence of a class based society. It examines some of the ways that psychologists and other social scientists have integrated social class into their work. A rigorous interrogation of everyday experiences of economic injustice is central to this course. Topics may include the way that social class intersects with a range of identity categories, classism, poverty, inequality, commodity fetishism, and consumer society.</p> <p>Cross-listed with Diversity and Social Justice Studies 4130.</p> <p>PREREQUISITE: Psychology 1010-1020, 2020 and 2780-2790, or 2510, or Permission of Instructor. If taking DSJS 4130, the prerequisites are <u>DSJS 1090 and two other DSJS courses at the 3000 or 4000 level at least 3rd year standing and at least 2 DSJS courses.</u></p> <p>Three hours a week</p> |

Rationale for Change: The Department of DSJS will be proposing in the future to eliminate DSJS 1090 as a core/required course.

Effective Term: FALL 2021

Implications for Other Programs: No implications for other programs.

Impact on Students Currently Enrolled: No impact to current students.

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Dr. Tracy Doucette/Ann Braithwaite | December 4, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #11

Revision is for a: **Course Description Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **History and Classics**

MOTION: To have the change in the course description for History 3310 History of Prince Edward Island— Pre-Confederation be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>3310 History of Prince Edward Island— Pre-Confederation This study of Prince Edward Island until 1864 emphasizes the French Regime, the development of colonial institutions, the struggle for the attainment of Responsible Government, and the influence of the land tenure system on the economic, political, and social development of the Island. PREREQUISITES: Second Year standing or above, or permission of the instructor Lecture: Three hours a week.</p> | <p>3310 History of Prince Edward Island— Pre-Confederation This study of Prince Edward Island until 1864 1873 <u>traces the island's history from pre-history through to the colony's reluctant entry into Confederation. Topics will include the nature and impact of settlement in the colony.</u> emphasizes the French Regime, the development of colonial institutions <u>and the colonial economy,</u> the struggle for the attainment of Responsible Government, and the influence of the land tenure system on the economic, political, and social development of the Island. PREREQUISITES: Second year standing or above or permission of the instructor Lecture: Three hours a week.</p> |

Rationale for Change: The change in the description and the course's timelines will reflect how the course is actually being taught.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: James Moran | February 1, 2021 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: May/2020

CALENDAR & CURRICULUM CHANGE

Motion #12

Revision is for a: **Course Description Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **History and Classics**

MOTION: To have the change in the course description for HIST 3320 History of Prince Edward Island – Post Confederation be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>3320 History of Prince Edward Island—Post-Confederation This study of Prince Edward Island from 1864 until the present emphasizes the role of the Island in the Confederation movement, its entry into Confederation, and provincial-federal adjustments as they affected Prince Edward Island's history. It is recommended that History 3310/3320 be taken in sequence. PREREQUISITES: Second Year standing or above, or permission of the instructor Lecture: Three hours a week.</p> | <p>3320 History of Prince Edward Island—Post-Confederation This study of Prince Edward Island from 1864 <u>1873</u> until the present <u>1945</u> emphasizes the role of the Island in the Confederation movement, its entry into Confederation, and provincial-federal adjustments relations as they affected Prince Edward Island's history, <u>and the development of the province's rural society and culture during decades of economic struggle and population decline</u>. It is recommended that History 3310/3320 be taken in sequence. PREREQUISITES: Second Year standing or above, or permission of the instructor Lecture: Three hours a week.</p> |

Rationale for Change: The change of the beginning date in the course description reflects how the course is actually taught, beginning in 1873. The end date for the coverage reflects an intention to re-define History 4890, PEI in the 20th Century as Postwar Prince Edward Island.

Effective Term: FALL 2021

Implications for Other Programs: No implications for other programs

Impact on Students Currently Enrolled: The change will not affect current students, who will still receive credit for the three implicated courses.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: James Moran | November 25, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #13

Revision is for a: **Course Description Change**

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **History and Classics**

MOTION: To have the change in the course title and description for HIST 4890 20th Century Prince Edward Island be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>4890 20th Century Prince Edward Island This course examines major economic, political, and cultural developments within Prince Edward Island during the 20th century. Topics include the effects of technological change; Maritime Union; federal-provincial relations, including transfer payments and the 15-year Comprehensive Development Plan; "Rural Renaissance"; the constitutional discussions of the 1980s and 1990s; and the debate surrounding construction of the "fixed link." PREREQUISITES: Third year standing or above, or permission of the instructor Seminar: Three hours a week.</p> | <p>4890 20th Century Prince Edward Island <u>Postwar Prince Edward Island</u> This course examines major economic, political, and cultural developments within Prince Edward Island <u>during the 20th century since 1945</u>. Topics include <u>the effects of technological change the impact of modernization on the Island's society and culture;</u> Maritime Union; federal-provincial relations, including transfer payments and the 15-year Comprehensive Development Plan; <u>the "Rural Renaissance"; the constitutional discussions of the 1980s and 1990s the emergence of tourism as a major economic and cultural force;</u> <u>and the debate surrounding construction of the "fixed link.";</u> <u>and the collision of globalism with localism in the new millennium.</u> PREREQUISITES: Third year standing or above, or permission of the instructor Seminar: Three hours a week.</p> |

Rationale for Change: The change allows the course to focus more intensely on the critical developments of the past seventy years on the Island's culture, society, economy, and political relations. It also removes the appearance of overlap between Post-Confederation PEI, History 3320, and History 4890, which previously covered the entire 20th century, albeit in a seminar format.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: James Moran | November 25, 2020 |
| Faculty/School Approval: Arts Curriculum Committee | February 1, 2021 |
| Faculty Dean's Approval: Neb Kujundzic | February 1, 2021 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

SUMMARY OF FACULTY OF SCIENCE MOTION #'S 14-60

Department of Applied Human Sciences

- Prerequisite change to KINE 3120

Department of Biology

- Course title, description and prerequisite change to BIO 4030
- Prerequisite change to BIO 3120, BIO 3240, BIO 3510, BIO 3610, BIO 3660, BIO 3710, BIO 3750,
- Prerequisite change to BIO 4010, BIO 4020, BIO 4050, BIO 4110, BIO 4130, BIO 4350, BIO 4520, BIO 4620, BIO 4650, BIO 4710, BIO 4750, BIO 4850
- Calendar Entry Change relating to the section titled "Requirements for a Major in Biology"

Department of Chemistry

- Prerequisite Addition/Change for CHEM 2020
- Calendar Entry Change for electives required for an Major in Chemistry
- Calendar Entry Change for electives required for an Honours in Chemistry

Department of Environmental Studies

- Calendar Entry Change relating to the section titled 'Requirements for a Minor in Environmental Studies' (regarding PHIL 2710)
- Calendar Entry Change relating to the section titled 'Specializations (for program Majors), Environmental Thought and Practice Specialization' (regarding PHIL 2710)

School of Mathematical and Computational Sciences

- Course description change to CS 1910
- Prerequisite change to CS 2520
- Course description and prerequisite changes to CS 2910
- Course title and description changes to CS 3620
- Course description and prerequisite change to CS 4810
- Course description change to CS 4820

Department of Physics

- Course Deletion for PHYS 2220
- Course description and prerequisite change for PHYS 2020
- Course title, description and prerequisite change for PHYS 2610
- Course number, description and prerequisite change for PHYS 3820 (now PHYS 2030)

SUMMARY OF FACULTY OF SCIENCE MOTION #'S 14-60

- Course number, title and description change for PHYS 4410 (now PHYS 3330)
- Course title, description and prerequisite change for PHYS 3420
- Course description and prerequisite change for PHYS 3520
- Course description and prerequisite change for PHYS 4430
- Calendar Entry change relating to section titled 'Minor in Medical and Biological Physics'
- Calendar Entry change relating to section titled 'Requirements for a Major in Physics'
- Calendar Entry change relating to section titled 'Specialization in Medical and Biological Physics'
- Calendar Entry change relating to section titled 'Requirements for Honours in Physics'
- Calendar Entry change relating to section titled 'Specialization in Medical and Biological Physics – Honours'
- Calendar Entry Change relating to the section titled 'Requirements for a BSc with a Major in Physics for Engineering Diploma Students'

CALENDAR & CURRICULUM CHANGE

Motion #14

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Applied Human Sciences**

MOTION: To have the change in prerequisite for KINE 3120 Introduction to Biomechanics be approved as proposed.

| | |
|---|--|
| <p>3120 INTRODUCTION TO BIOMECHANICS This course introduces kinesiology students to the biomechanical basis of fundamental human movement. Topics include: skeletal, muscular and neural considerations for movement; functional anatomy; and essential mechanics and mathematics for the analysis of human motion. Cross-listed with Physics 2420. PREREQUISITE: Kinesiology 2210, Math 1120, Physics 1210 and admission to BSc Kinesiology program. NOTE: Prerequisites for Physics 2420 – Kinesiology 1010 or Physics 1110 or Physics 1210; and Math 1120 or Math 1910/1920. Three hours lecture, three hours laboratory a week</p> | <p>3120 INTRODUCTION TO BIOMECHANICS This course introduces kinesiology students to the biomechanical basis of fundamental human movement. Topics include: skeletal, muscular and neural considerations for movement; functional anatomy; and essential mechanics and mathematics for the analysis of human motion. Cross-listed with Physics 2420. PREREQUISITE: Kinesiology 2210, Math 1120, Physics 1210, <u>Kinesiology 2510</u> and admission to BSc Kinesiology program. NOTE: Prerequisites for Physics 2420 – Kinesiology 1010 or Physics 1110 or Physics 1210; and Math 1120 or Math 1910/1920. Three hours lecture, three hours laboratory a week</p> |
|---|--|

Rationale for Change: KINE 2510 was recently added to better prepare students for KINE 3120.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dany MacDonald, AHS Chair | January 13, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #15

Revision is for a: **Course Title Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in course title, description and prerequisite for BIO 4030 Developmental Biology be approved as proposed.

| | |
|--|---|
| <p>*4030 DEVELOPMENTAL BIOLOGY This course provides a comprehensive overview of the main processes involved during the development of an organism. The primary focus of the course is the shared genetic and biochemical events that underlie the development of all organisms. Model systems are studied in order to highlight general principles of ontogeny. These principles are then examined in the development of other organisms, including humans. During laboratories students are exposed to basic techniques in modern developmental chemistry. PREREQUISITE: Biology 2210 Three hours lecture, three hours laboratory a week</p> | <p>*4030 DEVELOPMENTAL AND STEM CELL BIOLOGY This course provides a comprehensive overview of <u>the role of stem cells in main processes involved during the mammalian development of an organism</u>. The primary focus of the course is the shared genetic and <u>biochemical epigenetic</u> events that underlie <u>the embryonic and postnatal development of all organisms</u>. <u>Mouse Mmodels and human</u> systems are studied <u>in order</u> to highlight general principles of ontogeny. <u>These principles are then examined in the development of other organisms, including humans</u>. <u>The course involves reading research articles, writing assignments, student presentations, and discussions</u>. <u>During laboratories students are exposed to basic techniques in modern developmental chemistry</u>. <u>Note: BIO 3520 is recommended, but is not required.</u> PREREQUISITES: <u>Biology 1310, 1320, 2210 and 3310</u>. Three hours lecture, <u>three hours laboratory</u> a week</p> |
|--|---|

Rationale for Change: This new description reflects the way the course will be delivered, to focus more on modern and contemporary topics; also, Developmental Biology labs are no longer feasible due to logistical and biosafety challenges, so the active learning component of the course will focus on student presentations and discussions.

Effective Term: Fall 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None. This course has not been offered in recent years.

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: K. Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #16

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 3120 History of Biology be approved as proposed.

| | |
|--|--|
| <p>3120 HISTORY OF BIOLOGY This course surveys the major advances in the biological sciences from prehistory to modern times. Emphasis is placed on the effect which past ideas have had on the evolution of Biology. PREREQUISITE: A combined average of at least 60% in Biology 1310-1320 or department permission. Students registered in Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310. Three hours lecture and one hour discussion group a week</p> | <p>3120 HISTORY OF BIOLOGY This course surveys the major advances in the biological sciences from prehistory to modern times. Emphasis is placed on the effect which past ideas have had on the evolution of Biology. PREREQUISITE: <u>Biology 1310, 1320 and at least 4 Biology courses at the 2000 level. A combined average of at least 60% in Biology 1310-1320 or department permission?</u> Students registered in Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310. Three hours lecture and one hour discussion group a week</p> |
|--|--|

Rationale for Change: A minimum of 60% in Bio 1310-1320 is no longer required for Biology courses at or above the 2000-level.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #17

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 3240 Comparative Vertebrate Anatomy be approved as proposed.

| | |
|--|---|
| <p>*3240 COMPARATIVE VERTEBRATE ANATOMY This course builds upon some of the material presented in Biology 2040, providing students with a much more detailed look at the structure and function of various organs and organ systems of the vertebrate body. Dissections and display material are used during laboratories to allow students to compare and contrast these systems in representative vertebrates. PREREQUISITE: Biology 2040. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> | <p>*3240 COMPARATIVE VERTEBRATE ANATOMY This course builds upon some of the material presented in Biology 2040, providing students with a much more detailed look at the structure and function of various organs and organ systems of the vertebrate body. Dissections and display material are used during laboratories to allow students to compare and contrast these systems in representative vertebrates. PREREQUISITE: <u>Biology 1310, 1320, and Biology 2040 or 2220</u>. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> |
|--|---|

Rationale for Change: A fundamental background in ecology (Bio 2220) is also relevant for students taking this course.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #18

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the prerequisite change for BIO 3510 Ornithology be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>*3510 ORNITHOLOGY A study of avian biology with particular emphasis on identification, behaviour, breeding biology and ecology of birds. Laboratory periods will include field trips to major habitats. PREREQUISITE: A combined average of at least 60% in Biology 1310-1320. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Two hours lecture, four hours laboratory a week NOTE: With the permission of the instructor and the Chair, the prerequisite for this course may be waived for students not majoring in Biology.</p> | <p>*3510 ORNITHOLOGY A study of avian biology with particular emphasis on identification, behaviour, breeding biology and ecology of birds. Laboratory periods will include field trips to major habitats. PREREQUISITE: <u>A combined average of at least 60% in Biology 1310-1320, Biology 1310, 1320 and 2220.</u> Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Two hours lecture, four hours laboratory a week NOTE: With the permission of the instructor and the Chair, the prerequisite for this course may be waived for students not majoring in Biology.</p> |

Rationale for Change: A minimum of 60% in Bio 1310-1320 is no longer required for Biology courses at or above the 2000-level.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #19

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 3610 Biology of Fishes be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>*3610 BIOLOGY OF FISHES An introductory course on the Biology of fishes outlining classification, comparative structure and function of the systems of major fish groups. Emphasis will be placed on the diversity, distribution, ecology and evolution of freshwater and marine fishes of the Atlantic region. Laboratory periods will involve field and laboratory studies. PREREQUISITE: A combined average of at least 60% in Biology 1310-1320 or completion of Biology 1310 and 2510 and registration in Bachelor of Wildlife Conservation Program. Three hours lecture, three hours laboratory a week</p> | <p>*3610 BIOLOGY OF FISHES An introductory course on the Biology of fishes outlining classification, comparative structure and function of the systems of major fish groups. Emphasis will be placed on the diversity, distribution, ecology and evolution of freshwater and marine fishes of the Atlantic region. Laboratory periods will involve field and laboratory studies. PREREQUISITE: A combined average of at least 60% in Biology 1310-1320 or completion of Biology 1310 and 2510 and registration in Bachelor of Wildlife Conservation Program. <u>Biology 1310, 1320 and 2220.</u> <u>Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220.</u> Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: A minimum of 60% in Bio 1310-1320 is no longer required for Biology courses at or above the 2000-level and Bio 2510 is no longer offered.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|--------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020. |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/a | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #20

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 3660 Plant-Animal Interactions be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>*3660 PLANT-ANIMAL INTERACTIONS This course examines evolutionary and ecological themes in plant-animal interactions by presenting some of the complex interactions that have arisen between plants and animals. The course will consist of lectures on various topics such as plant communities as animal habitats, pollination and seed dispersal by animal, ant and plant interactions, insect herbivore and host-plant interactions, seed predation, and carnivorous plants and insects, and the pivotal role of plant-animal interactions in conservation biology. The course requires presentations and discussions of the primary literature, and includes some laboratory and field projects. PREREQUISITES: Biology 2020, 2040, and 2220 or completion of Biology 1310 and 2510 and registration in Bachelor of Wildlife Conservation Program Three hours lecture a week, three hours laboratory every other week</p> | <p>*3660 PLANT-ANIMAL INTERACTIONS This course examines evolutionary and ecological themes in plant-animal interactions by presenting some of the complex interactions that have arisen between plants and animals. The course will consist of lectures on various topics such as plant communities as animal habitats, pollination and seed dispersal by animal, ant and plant interactions, insect herbivore and host-plant interactions, seed predation, and carnivorous plants and insects, and the pivotal role of plant-animal interactions in conservation biology. The course requires presentations and discussions of the primary literature, and includes some laboratory and field projects. PREREQUISITES: <u>Biology 2020, 2040, and 2220, or completion of Biology 1310 and 2510 and registration in Bachelor of Wildlife Conservation Program</u> <u>Biology 1310, 1320 and at least 4 Biology courses at the 2000 level. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220.</u> Three hours lecture a week, three hours laboratory every other week</p> |

Rationale for Change: Biology 2510 is no longer offered.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #21

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 3710 Life of Mammals be approved as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>*3710 LIFE OF MAMMALS This course is an introduction to the study of the animals that constitute the class Mammalia. Topics include taxonomic classification, zoogeography, reproductive strategies, ecology, behaviour, and economic considerations. Laboratory exercises include several projects involving field work with the mammalian fauna of Prince Edward Island. PREREQUISITES: Biology 2040 and 2220 or completion of Biology 1310 and 2510 and registration in Bachelor of Wildlife Conservation Program Three hours lecture, three hours laboratory a week</p> | <p>*3710 LIFE OF MAMMALS This course is an introduction to the study of the animals that constitute the class Mammalia. Topics include taxonomic classification, zoogeography, reproductive strategies, ecology, behaviour, and economic considerations. Laboratory exercises include several projects involving field work with the mammalian fauna of Prince Edward Island. PREREQUISITES: Biology <u>1310, 1320, 2040 and 2220</u>, or completion of Biology 1310 and 2510 and registration in Bachelor of Wildlife Conservation Program. <u>Students registered in the Bachelor of Wildlife Conservation program may take this course after completion of Biology 1310 and Biology 2220.</u> Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: Biology 2510 is no longer offered.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020. |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #22

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 3750 Medical Microbiology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|---|
| 3750 MEDICAL MICROBIOLOGY The basic principles of microbiology, biochemistry, molecular biology/genetics are used to discuss aspects of microbial diseases with a particular focus on the specific mechanisms whereby disease occurs. Topics include drug-resistance development, resistance mechanisms, issues in infection prevention and control, and emerging pathogens. PREREQUISITE: Biology 2060 or equivalent or permission of the instructor Three hours lecture a week | 3750 MEDICAL MICROBIOLOGY The basic principles of microbiology, biochemistry, molecular biology/genetics are used to discuss aspects of microbial diseases with a particular focus on the specific mechanisms whereby disease occurs. Topics include drug-resistance development, resistance mechanisms, issues in infection prevention and control, and emerging pathogens. PREREQUISITE: Biology <u>1310, 1320 and 2060</u> or equivalent or permission of the instructor Three hours lecture a week |

Rationale for Change: The Instructor and Chair will discuss any cases in which students can register without having the necessary prerequisites.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #23

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4010 Human Physiology & Pathophysiology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|--|
| <p>*4010 HUMAN PHYSIOLOGY & PATHOPHYSIOLOGY This course is an in-depth overview of the function of human organ systems emphasizing the effects of disease states. It is designed for students interested in human health professions, such as Nurse Practitioners. The course covers nervous & endocrine systems and disorders; cardio- pulmonary, blood, immune & exercise physiology and related diseases; fluid and metabolic balance and related disorders; and pregnancy. Laboratories focus on physiological principles, diseases and application of knowledge in case studies. Cross-level listed with Nursing 6010. PREREQUISITES: Biology 3260 or entry to the Master of Nursing, Nurse Practitioner stream, or permission of instructor Three hours lecture, three hour laboratory a week</p> | <p>*4010 HUMAN PHYSIOLOGY & PATHOPHYSIOLOGY This course is an in-depth overview of the function of human organ systems emphasizing the effects of disease states. It is designed for students interested in human health professions, such as Nurse Practitioners. The course covers nervous & endocrine systems and disorders; cardio- pulmonary, blood, immune & exercise physiology and related diseases; fluid and metabolic balance and related disorders; and pregnancy. Laboratories focus on physiological principles, diseases and application of knowledge in case studies. Cross-level listed with Nursing 6010. PREREQUISITES: Biology <u>1310, 1320, 3260</u> or entry to the Master of Nursing, Nurse Practitioner stream, or permission of instructor Three hours lecture, three hour laboratory a week</p> |

Rationale for Change: The Instructor and Chair will discuss any cases in which students can register without having the necessary prerequisites.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #24

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4020 Comparative & Environmental Vertebrate Physiology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|--|
| <p>*4020 COMPARATIVE & ENVIRONMENTAL VERTEBRATE PHYSIOLOGY A study of animal function emphasizing complex regulatory and metabolic mechanisms, the relationships between organ systems, and interactions between animals and their environment. Weekly laboratory exercises and a mini-research project will demonstrate experimental physiologic principles. PREREQUISITES: Biology 2040 and 3260 or permission of instructor Three hours lecture, three hours laboratory a week</p> | <p>*4020 COMPARATIVE & ENVIRONMENTAL VERTEBRATE PHYSIOLOGY A study of animal function emphasizing complex regulatory and metabolic mechanisms, the relationships between organ systems, and interactions between animals and their environment. Weekly laboratory exercises and a mini-research project will demonstrate experimental physiologic principles. PREREQUISITES: Biology <u>1310, 1320, 2040 and 3260</u> or permission of instructor Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: The Instructor and Chair will discuss any cases in which students can register without having the necessary prerequisites.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020



CALENDAR & CURRICULUM CHANGE

Motion #25

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4050 Medical Biology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|--|
| <p>4050 MEDICAL BIOLOGY This course extends principles of biochemistry, physiology and molecular biology in the context of human diseases and treatment. Using a case-study and discussion format, the course explores advanced studies in biochemical pathways in humans, molecular regulation of biochemistry, human diseases related to altered biochemical pathways, and pharmacology. PREREQUISITES: Biology 1230 or 3260; Biology 2230 or 2240; and Biology 2250 or Chemistry 3530. Students in the BSc Paramedicine program may take Biology 4050 after Biology 1310. Three hours lectures per week</p> | <p>4050 MEDICAL BIOLOGY This course extends principles of biochemistry, physiology and molecular biology in the context of human diseases and treatment. Using a case-study and discussion format, the course explores advanced studies in biochemical pathways in humans, molecular regulation of biochemistry, human diseases related to altered biochemical pathways, and pharmacology. PREREQUISITES: Biology 1230 <u>1310, 1320, and 1220</u> or 3260; Biology 2230 or 2240; and Biology 2250 or Chemistry 3530. Students in the BSc Paramedicine program may take Biology 4050 after Biology 1310. Three hours lectures per week</p> |

Rationale for Change: Biology 1230 is no longer offered. Biology 1220 is the same course with a lab component.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #26

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4110 Principles of Wildlife Biology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|---|
| <p>*4110 PRINCIPLES OF WILDLIFE BIOLOGY This course focuses on the basic principles of wildlife biology, wildlife management, and contemporary wildlife issues. The laboratory/field component includes an introduction to techniques used in wildlife research, habitat assessments and debates on local wildlife issues. PREREQUISITE: Biology 2020 and 2040 or completion of Biology 1310 and 2510 and registration in Bachelor of Wildlife Conservation Program. Two hours lecture, four hours laboratory a week</p> | <p>*4110 PRINCIPLES OF WILDLIFE BIOLOGY This course focuses on the basic principles of wildlife biology, wildlife management, and contemporary wildlife issues. The laboratory/field component includes an introduction to techniques used in wildlife research, habitat assessments and debates on local wildlife issues. PREREQUISITE: Biology <u>1310, 1320, 2020 and 2040.</u> <u>Students registered or completion of Biology 1310 and 2510 and registration in the Bachelor of Wildlife Conservation Program: may take this course after completion of Biology 1310.</u> Two hours lecture, four hours laboratory a week</p> |

Rationale for Change: Biology 2510 is no longer offered; reworded to make consistent with other courses.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #27

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4130 Conservation Genetics be approved as proposed.

| Reproduction of Current Calendar Entry | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>*4130 CONSERVATION GENETICS An introduction to the guiding principles of conservation biology and genetics, and their application to the preservation of biodiversity. Students will explore current research topics, such as ecological and landscape genetics, invasion biology, and genomics for endangered species through lectures, extensive discussion and a major paper. Laboratories may involve field trips and molecular techniques. PREREQUISITES: Biology 2220 and Biology 2230 (Biology 3820 is a recommended co-requisite, but is not essential). Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> | <p>*4130 CONSERVATION GENETICS An introduction to the guiding principles of conservation biology and genetics, and their application to the preservation of biodiversity. Students will explore current research topics, such as ecological and landscape genetics, invasion biology, and genomics for endangered species through lectures, extensive discussion and a major paper. Laboratories may involve field trips and molecular techniques. <u>Note: Biology 3820 is a recommended co-requisite, but is not required.</u> PREREQUISITES: Biology <u>1310, 1320, 2220 and Biology 2230 or 2240</u> (Biology 3820 is a recommended co-requisite, but is not essential). Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: Biology 2240 Human Genetics also provides the necessary background for this course.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #28

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4350 The Biology of Sex be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|--|
| <p>4350 THE BIOLOGY OF SEX</p> <p>This course explores the various aspects of sexual reproduction, focussing on evolutionary questions. The course compares various modes of reproduction (asexual and sexual) and examines the important questions of why sex evolved and why it is so common among plants and animals today. Topics include sexual selection, mating strategies of males and females, sperm competition, sex ratios, and various potentially controversial aspects of human sexuality from a biological perspective. The course involves extensive discussion (including student-led discussions), reading, writing, and a major paper.</p> <p>PREREQUISITE: Biology 2230 (other useful courses are Biology 3350 and Biology 3820)</p> <p>Three hours lecture, one hour discussion weekly</p> | <p>4350 THE BIOLOGY OF SEX</p> <p>This course explores the various aspects of sexual reproduction, focussing on evolutionary questions. The course compares various modes of reproduction (asexual and sexual) and examines the important questions of why sex evolved and why it is so common among plants and animals today. Topics include sexual selection, mating strategies of males and females, sperm competition, sex ratios, and various potentially controversial aspects of human sexuality from a biological perspective. The course involves extensive discussion (including student-led discussions), reading, writing, and a major paper.</p> <p>PREREQUISITE: <u>Biology 2230 (other useful courses are Biology 3350 and Biology 1310, 1320, and 3350 or 3820.)</u></p> <p>Three hours lecture, one hour discussion weekly</p> |

Rationale for Change: This course requires a fundamental understanding of evolution. Students will obtain a basic understanding of genetics in that course so Bio 2230 is not required.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: K. Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020



CALENDAR & CURRICULUM CHANGE

Motion #29

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology**

MOTION: To have the change in prerequisite for BIO 4520 Biogeography and Macroecology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|--|
| <p>*4520 BIOGEOGRAPHY AND MACROECOLOGY This course examines the patterns of distribution, species richness, and abundance of organisms in space and time with emphasis on animal communities, as well as ecology of insular biotas. Historical, ecological, geographical, and anthropological factors affecting these patterns are examined. PREREQUISITES: A combined average of at least 60% in Biology 1310-1320. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> | <p>*4520 BIOGEOGRAPHY AND MACROECOLOGY This course examines the patterns of distribution, species richness, and abundance of organisms in space and time with emphasis on animal communities, as well as ecology of insular biotas. Historical, ecological, geographical, and anthropological factors affecting these patterns are examined. PREREQUISITES: <u>A combined average of at least 60% in Biology 1310-1320 Biology 1310, 1320 and Biology 2220.</u> Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: The minimum average of 60% in Bio 1310-1320 is no longer required. Bio 2220 has the necessary background for this course for all students.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #30

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4620 Watershed Ecology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|---|
| <p>*4620 WATERSHED ECOLOGY The focus of this course is the study of watersheds, with emphasis on those found on Prince Edward Island. Lectures focus on the physical, chemical, and biological characteristics of streams and their surrounding riparian zones, and labs will include practical application of stream sampling methods. PREREQUISITES: Biology 2220 or equivalent Three hours lecture, three hours laboratory a week</p> | <p>*4620 WATERSHED ECOLOGY The focus of this course is the study of watersheds, with emphasis on those found on Prince Edward Island. Lectures focus on the physical, chemical, and biological characteristics of streams and their surrounding riparian zones, and labs will include practical application of stream sampling methods. PREREQUISITES: <u>Biology 1310, 1320 and 2220</u> <u>or equivalent or permission of the instructor.</u> Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: The addition of the NOTE permits people working outside the university (e.g., government or watershed groups) to take the course without having the prerequisite.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #31

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4650 Marine Community Ecology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|---|
| <p>*4650 MARINE COMMUNITY ECOLOGY This course constitutes a critical review of the dynamics and the rules of assembly that are distinctive to marine biological communities. Its main goal is the exploration of the organizing mechanisms behind spatial and temporal patterns exhibited by planktonic and benthic communities. Although the focus is on general principles and broad ideas, specific problems and practical work relate primarily to communities and habitats from Atlantic Canada. PREREQUISITES: Biology 2220 and Biology 3910 or permission of instructor. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> | <p>*4650 MARINE COMMUNITY ECOLOGY This course constitutes a critical review of the dynamics and the rules of assembly that are distinctive to marine biological communities. Its main goal is the exploration of the organizing mechanisms behind spatial and temporal patterns exhibited by planktonic and benthic communities. Although the focus is on general principles and broad ideas, specific problems and practical work relate primarily to communities and habitats from Atlantic Canada. PREREQUISITES: Biology <u>1310, 1320, 2220</u> and <u>Biology-3910</u> or permission of instructor. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Biology 2220. Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: The Instructor and Chair will discuss any cases in which students can register without having the necessary prerequisites.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #32

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4710 Molecular Biotechnology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|---|
| <p>4710 MOLECULAR BIOTECHNOLOGY</p> <p>This course examines principles of gene manipulation, and the application of molecular biology in biotechnology. Recent developments in medicine, agriculture, industry and basic research are considered. Emphasis is placed on reviewing current literature in the field.</p> <p>PREREQUISITE: Biology 2230</p> <p>Three hours lecture a week</p> | <p>4710 MOLECULAR BIOTECHNOLOGY</p> <p>This course examines principles of gene manipulation, and the application of molecular biology in biotechnology. Recent developments in medicine, agriculture, industry and basic research are considered. Emphasis is placed on reviewing current literature in the field.</p> <p>PREREQUISITE: Biology <u>1310, 1320, and 2230 or 2240</u></p> <p>Three hours lecture a week</p> |

Rationale for Change: Human Genetics (BIO 2240) will provide the necessary background for this course.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #33

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4750 Basic and Clinical Immunology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|---|
| 4750 BASIC AND CLINICAL IMMUNOLOGY This course presents the basic principles of immunology, its role and impact on specific mechanisms pertaining to human health. Topics include the immune system, antigen-antibody reactions, T & B cell biology and chemistry, cytokines, complement system, hypersensitivity, immune-physiology, cell mediated immunity, vaccines, AIDS and other immunodeficiencies, autoimmunity, transplant immunology and cancer. PREREQUISITE: Biology 2060 or equivalent or permission of the instructor Three hours lecture a week | 4750 BASIC AND CLINICAL IMMUNOLOGY This course presents the basic principles of immunology, its role and impact on specific mechanisms pertaining to human health. Topics include the immune system, antigen-antibody reactions, T & B cell biology and chemistry, cytokines, complement system, hypersensitivity, immune-physiology, cell mediated immunity, vaccines, AIDS and other immunodeficiencies, autoimmunity, transplant immunology and cancer. PREREQUISITE: Biology <u>1310, 1320, and 2060</u> , or equivalent or permission of the instructor Three hours lecture a week |

Rationale for Change: The Instructor and Chair will discuss any cases in which students can register without having the necessary prerequisites.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #34

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the change in prerequisite for BIO 4850 Environmental Toxicology be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|--|
| <p>*4850 ENVIRONMENTAL TOXICOLOGY This course introduces the basic toxicological principles with respect to environmental toxicology, including a survey of major environmental pollutants and the statutes governing chemical release. Environmental effects on biota and methods of detection of environmental pollutants will be examined using endpoints at multiple levels of biological organization from biochemical to community. PREREQUISITE: A combined average of at least 60% in Biology 1310-1320 and Chemistry 1110-1120. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Chemistry 1110-1120. Three hours lecture, three hours laboratory a week</p> | <p>*4850 ENVIRONMENTAL TOXICOLOGY This course introduces the basic toxicological principles with respect to environmental toxicology, including a survey of major environmental pollutants and the statutes governing chemical release. Environmental effects on biota and methods of detection of environmental pollutants will be examined using endpoints at multiple levels of biological organization from biochemical to community. PREREQUISITE: A combined average of at least 60% in Biology 1310-1320 and <u>Biology 1310 and 1320,</u> Chemistry 1110-1120. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 1310 and Chemistry 1110-1120. Three hours lecture, three hours laboratory a week</p> |

Rationale for Change: The minimum average of 60% in Biology 1310-1320 is no longer required.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #35

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Biology Department**

MOTION: To have the addition of a new note under the “Requirements for a Major in Biology” be approved as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|--|
| <p>REQUIREMENTS FOR A MAJOR IN BIOLOGY A student enrolled in the Majors program in Biology will complete a minimum of 42 semester hours in Biology, and additional courses in Science according to the program outlined below. Students may choose to take a general Biology degree or to obtain a Life Sciences or Environmental Biology specialization. Students in the ‘pre-vet’ program should follow the Life Sciences specialization, and may select courses of interest in animal biology or other areas.</p> | <p>REQUIREMENTS FOR A MAJOR IN BIOLOGY A student enrolled in the Majors program in Biology will complete a minimum of 42 semester hours in Biology, and additional courses in Science according to the program outlined below. Students may choose to take a general Biology degree or to obtain a Life Sciences or Environmental Biology specialization. Students in the ‘pre-vet’ program should follow the Life Sciences specialization, and may select courses of interest in animal biology or other areas.</p> <p><u>NOTE: Biology 1310-1320 are introductory biology courses required for all students enrolled in the Biology Majors program. Biology 1310 and Biology 1320 must be completed prior to enrollment in Biology courses at the 3000 and 4000 levels.</u></p> |

Rationale for Change: It is important that both introductory courses are completed before students enrol in Biology courses at the 3000 and 4000 level.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Kevin Teather, Biology Chair | December 14, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean’s Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean’s Approval: N/A | N/A |
| Registrar’s Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #36

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Chemistry**

MOTION: To have the change in prerequisite for CHEM 2020 Environmental Chemistry be approved as proposed.

| | |
|---|---|
| <p>2020 ENVIRONMENTAL CHEMISTRY This course deals with the major topics of concern in environmental chemistry. Emphasis is placed on the chemistry involved, as well as assessment of the relative hazards and corrective methods available to provide abatement. Topics covered include: atmospheric free radical chemistry, the green- house effect, stratospheric ozone, tropospheric chemistry and photochemical smog, the chemistry of natural water systems, acid rain, indoor air quality, sewage and waste management, chlorinated organic compounds, and heavy metals in the environment. PREREQUISITE: Chemistry 1120 Three lecture hours a week & three laboratories during the term (scheduled during the first class)</p> | <p>2020 ENVIRONMENTAL CHEMISTRY This course deals with the major topics of concern in environmental chemistry. Emphasis is placed on the chemistry involved, as well as assessment of the relative hazards and corrective methods available to provide abatement. Topics covered include: atmospheric free radical chemistry, the green- house effect, stratospheric ozone, tropospheric chemistry and photochemical smog, the chemistry of natural water systems, acid rain, indoor air quality, sewage and waste management, chlorinated organic compounds, and heavy metals in the environment. PREREQUISITE: Chemistry 1120 Chemistry 1110 Three lecture hours a week & three laboratories during the term (scheduled during the first class)</p> |
|---|---|

Rationale for Change: To allow for students from different programs to be able to take Environmental Chemistry. From an equity point of view, students in specific programs have been given special permission to take this course without Chemistry 1120, so the opportunity to take this course with just 1 semester of first year chemistry should be available to any student.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: The changes will not impact students.

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Brian Wagner, Chemistry Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #37

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Chemistry**

MOTION: To approve the changes in the electives required for a Chemistry Major as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|--|
| <p>REQUIREMENTS FOR A MAJOR IN CHEMISTRY...</p> <p>*The total number of electives depends on whether Chemistry 4820 (6 credits) or Chemistry 4830 (3 credits) is taken to fulfill the fourth year laboratory requirement. The Chemistry electives may be chosen from the Chemistry courses numbered: 2020, 2820, 4320, 4410, 4610, 4620, 4640, 4670, 4680, 4690, 4820 or 4830. At least one of the electives must be a 4th year course.</p> | <p>REQUIREMENTS FOR A MAJOR IN CHEMISTRY...</p> <p>The total number of electives depends on whether Chemistry 4820 (6 credits) or Chemistry 4830 (3 credits) is taken to fulfill the fourth year laboratory requirement. The Chemistry electives may be chosen from the Chemistry courses numbered: 2020, 2820, 4320, 4410, 4610, 4620, 4640, 4670, 4680, 4690, 4820 or 4830 <u>or any 4th year Chemistry course</u>. At least one of the electives must be a 4th year course.</p> |

Rationale for Change: To provide more elective choices for Chemistry Majors.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: The changes will not impact students.

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Brian Wagner, Chemistry Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #38

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Chemistry**

MOTION: To approve the changes in the electives required for an Honours in Chemistry as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|---|
| <p>REQUIREMENTS FOR HONOURS IN CHEMISTRY...</p> <p>The Chemistry electives may be chosen from among Chemistry courses numbered: 2020, 2820, 4610, 4620, 4640, 4670, 4680, or 4690. The Mathematics elective may be chosen from Mathematics 2610, 3010, Statistics 1210 or Statistics 2910 in consultation with the Chair. As well, students in the Honours Program in Chemistry are strongly advised to take Physics 2720 (Electronics and Instrumentation) and/or Physics 3120 (Electromagnetism I)</p> | <p>REQUIREMENTS FOR HONOURS IN CHEMISTRY...</p> <p>The Chemistry electives may be chosen from among Chemistry courses numbered: 2020, 2820, <u>or any 4th year Chemistry course</u>, 4610, 4620, 4640, 4670, 4680, <u>or 4690</u>. The Mathematics elective may be chosen from Mathematics 2610, 3010, Statistics 1210 or Statistics 2910 1910 in consultation with the Chair. As well, students in the Honours Program in Chemistry are strongly advised to take Physics 2720 2120 (Electronics and Instrumentation-Electricity, Magnets, Circuits) and/or Physics 3120 (Electromagnetism I)</p> |

Rationale for Change: To provide additional elective choices for Honours students and to update the calendar with course names and number changes already approved in Physics and Statistics.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: The changes will not impact students.

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Brian Wagner, Chemistry Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020



CALENDAR & CURRICULUM CHANGE

Motion #39

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Environmental Studies**

MOTION: To approve the changes to the Requirements for a Minor in Environmental Studies as proposed.

| Requirements for a Minor in Environmental Studies | Requirements for a Minor in Environmental Studies |
|---|--|
| <p>A minor in Environmental Studies will be recognized when a student has successfully completed 21 semester hours of courses drawn from Environmental Studies courses and cross-listed courses.</p> <p>These courses must include:</p> <ol style="list-style-type: none"> 1) Two core introductory Environmental Studies courses (Environmental Studies 1010 and 2030) 2) A minimum of 6 semester hours in approved courses within the Faculty of Science; and 3) A minimum of 6 semester hours in approved courses within the Faculty of Arts; and 4) A minimum of 3 semester hours in Environmental Studies or approved courses within the Faculty of Arts or Faculty of Science <p>Approved Courses Environmental Studies Minor: Students who do not have the required prerequisites for particular courses that are cross-listed in the Environmental Studies Program are encouraged to consult with the instructors of these courses to seek their permission to enrol. Instructors may choose to admit students to these courses based upon alternative prerequisites that are judged to provide the student with sufficient background preparation for the course.</p> <p>Faculty of Science</p> <ul style="list-style-type: none"> • **Biology 1010 - Current Issues in Environmental Biology • Biology 1320 - Introduction to Organisms • Biology 2220 - Ecology • Biology 3140 - Plant Community Ecology • Biology 3270 - Field Coastal Ecology • Biology 3910 - Marine Biology • Biology 4110 - Principles of Wildlife Biology • Biology 4520 - Biogeography and Macroecology | <p>A minor in Environmental Studies will be recognized when a student has successfully completed 21 semester hours of courses drawn from Environmental Studies courses and cross-listed courses.</p> <p>These courses must include:</p> <ol style="list-style-type: none"> 1) Two core introductory Environmental Studies courses (Environmental Studies 1010 and 2030) 2) A minimum of 6 semester hours in approved courses within the Faculty of Science; and 3) A minimum of 6 semester hours in approved courses within the Faculty of Arts; and 4) A minimum of 3 semester hours in Environmental Studies or approved courses within the Faculty of Arts or Faculty of Science <p>Approved Courses Environmental Studies Minor: Students who do not have the required prerequisites for particular courses that are cross-listed in the Environmental Studies Program are encouraged to consult with the instructors of these courses to seek their permission to enrol. Instructors may choose to admit students to these courses based upon alternative prerequisites that are judged to provide the student with sufficient background preparation for the course.</p> <p>Faculty of Science</p> <ul style="list-style-type: none"> • **Biology 1010 - Current Issues in Environmental Biology • Biology 1320 - Introduction to Organisms • Biology 2220 - Ecology • Biology 3140 - Plant Community Ecology • Biology 3270 - Field Coastal Ecology • Biology 3910 - Marine Biology • Biology 4110 - Principles of Wildlife Biology • Biology 4520 - Biogeography and Macroecology • Biology 4540 - Biodiversity and |

CALENDAR & CURRICULUM CHANGE

Motion #39

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|--|---|
| <ul style="list-style-type: none"> • Biology 4540 - Biodiversity and Conservation Biology • Biology 4620 - Watershed Ecology • Biology 4650 - Marine Community Ecology • Biology 4850 - Environmental Toxicology • Chemistry 2020 - Environmental Chemistry • Physics 2610 - Energy, Environment and the Economy <p>** Students may only credit either Biology 1010 or Biology 1320 toward their minor.</p> <p>Faculty of Arts</p> <ul style="list-style-type: none"> • Economics 2110 - Introduction to Resource Economics • Economics 2150 - Environmental Economics • Economics 3520 - Applied Resource Economics • English 3220 - English Canadian Poetry • English 3310 - The Literature of Atlantic Canada • English 3350 - British Romantic Literature • History 4830 - History of the Environmental Movement • Island Studies 2010 - Introduction to Island Studies • Philosophy 1020 - Introduction to Ethics and Social Philosophy • Philosophy 1050 - Technology, Values, and Science • Philosophy 2030 - Environmental Philosophy • Philosophy 2060 - Animal Ethics • Philosophy 3710 - Community-Based Ethical Inquiry • Psychology 3330 - Ecopsychology • Sociology 3050 - Population and Society • Sociology/Anthropology 3410 - Technology, Society and the Environment | <p>Conservation Biology</p> <ul style="list-style-type: none"> • Biology 4620 - Watershed Ecology • Biology 4650 - Marine Community Ecology • Biology 4850 - Environmental Toxicology • Chemistry 2020 - Environmental Chemistry • Physics 2610 - Energy, Environment and the Economy <p>** Students may only credit either Biology 1010 or Biology 1320 toward their minor.</p> <p>Faculty of Arts</p> <ul style="list-style-type: none"> • Economics 2110 - Introduction to Resource Economics • Economics 2150 - Environmental Economics • Economics 3520 - Applied Resource Economics • English 3220 - English Canadian Poetry • English 3310 - The Literature of Atlantic Canada • English 3350 - British Romantic Literature • History 4830 - History of the Environmental Movement • Island Studies 2010 - Introduction to Island Studies • Philosophy 1020 - Introduction to Ethics and Social Philosophy • Philosophy 1050 - Technology, Values, and Science • Philosophy 2030 - Environmental Philosophy • Philosophy 2060 - Animal Ethics • <u>Philosophy 2710 - Ethics of Climate Change</u> • Philosophy 3710 - Community-Based Ethical Inquiry • Psychology 3330 - Ecopsychology • Sociology 3050 - Population and Society • Sociology/Anthropology 3410 - Technology, Society and the Environment |
|--|---|

Rationale for Change: This is a new course and the content is appropriate for the Environmental Studies minor

Effective Term: FALL 2021

CALENDAR & CURRICULUM CHANGE

Motion #39

Implications for Other Programs: None**Impact on Students Currently Enrolled:** None

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Environmental Studies Steering Committee | October 26, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #40

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Environmental Studies**

MOTION: To approve the changes to the Specialization in Environmental Thought and Practice as proposed.

| | |
|--|---|
| <p><i>Environmental Thought And Practice Specialization</i></p> <p>The specialization in Environmental Thought and Practice focuses on the exploration of the values, attitudes and beliefs of people in relation to the environment in order to provide answers to pressing environmental concerns.</p> <p>Two Core Specialization Courses = 6 Hours Credit</p> <ul style="list-style-type: none"> • Either Psychology 1010 - Introduction to Psychology I OR Psychology 3330 – Ecopsychology • Sociology/Anthropology 3410 - Technology, Society and the Environment <p>9 credit hours chosen from the following list OR other course with permission of Director:</p> <ul style="list-style-type: none"> • ENV 2420 - Society and Natural Resources • ENV 2310 - Island Environmental Histories • ENV 3420 - Environment and Development • ENV 4110 - Environmental Governance • ENV 4330 - Environmental Communication Strategies • ENV 4950 - Environmental Studies Symposium • ENG 3220 - English-Canadian Poetry • ENG 3620 - 19th-Century American Literature 1830-1910 • HIST 4830 - The History of the Environmentalist Movement • PHIL 2060 - Animal Ethics • PHIL 3710 - Community-based Ethical Inquiry | <p><i>Environmental Thought And Practice Specialization</i></p> <p>The specialization in Environmental Thought and Practice focuses on the exploration of the values, attitudes and beliefs of people in relation to the environment in order to provide answers to pressing environmental concerns.</p> <p>Two Core Specialization Courses = 6 Hours Credit</p> <ul style="list-style-type: none"> • Either Psychology 1010 - Introduction to Psychology I OR Psychology 3330 – Ecopsychology • Sociology/Anthropology 3410 - Technology, Society and the Environment <p>9 credit hours chosen from the following list OR other course with permission of Director:</p> <ul style="list-style-type: none"> • ENV 2420 - Society and Natural Resources • ENV 2310 - Island Environmental Histories • ENV 3420 - Environment and Development • ENV 4110 - Environmental Governance • ENV 4330 - Environmental Communication Strategies • ENV 4950 - Environmental Studies Symposium • ENG 3220 - English-Canadian Poetry • ENG 3620 - 19th-Century American Literature 1830-1910 • HIST 4830 - The History of the Environmentalist Movement • PHIL 2060 - Animal Ethics • <u>PHIL 2710 - Ethics of Climate Change</u> • PHIL 3710 - Community-based Ethical Inquiry |
|--|---|



CALENDAR & CURRICULUM CHANGE

Motion #40

Rationale for Change: This is a new course and the Steering committee decided that its content is appropriate to this specialization

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|---|-------------------|
| Departmental Approval: Environmental Studies Steering Committee | October 26, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #41

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Mathematical and Computational Sciences**

MOTION: To have the change in the course description for CS 1910 Computer Science I be approved as proposed.

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|--|---|
| <p>1910 Computer Science I</p> <p>Students will be introduced to computational thinking. They will learn how abstraction and decomposition can be used to solve problems and how to create, analyse and trace their own algorithmic solutions. They will iterate and improve their solutions through pseudocode and through implementation in a procedural programming paradigm. They will learn the following programming constructs: built-in types and user defined types, decision structures, repetition structures, functions and ways to represent data. They will learn to test their code through unit testing to ensure correctness of their programs.</p> <p>PREREQUISITE: Grade XII academic Mathematics</p> <p>Three lecture hours and 1.5 hours lab per week</p> | <p>1910 Computer Science I</p> <p>Students will be introduced to computational thinking. They will learn how abstraction and decomposition can be used to solve problems and how to create, analyse and trace their own algorithmic solutions. They will iterate and improve their solutions through pseudocode and through implementation in the procedural programming paradigm. They will learn the following programming constructs: data structures and types, decision structures, repetition structures, functions, exception handling, and ways to represent data in lists and strings. They will learn to test their code through unit testing to ensure correctness of their programs. <u>They will learn to test their code ensuring correctness of their programs.</u></p> <p>PREREQUISITE: Grade XII academic mathematics</p> <p>Three lecture hours and 1.5 hours lab per week</p> |
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Rationale for Change: Removal of unit testing.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Shannon Fitzpatrick | December 9, 2020 |
| Faculty/School Approval: Science Council | December 16, 2020 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | December 16, 2020 |
| Grad. Studies Dean's Approval: NA | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #42

Revision is for a: **Pre-requisite Addition/Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Mathematical and Computational Sciences**

MOTION: To have the change in prerequisite for CS 2520 Computer Organization and Architecture be approved as proposed.

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| <p>2520 Computer Organization and Architecture This course provides a basic understanding of the organization and architecture of modern computer systems. It examines the function and design of major hardware components both from a designer's perspective and through assembly language programming. Topics include components and their interconnection, internal/external memory, input/output subsystems, processors, computer arithmetic, instruction sets, addressing modes, and pipelining. PREREQUISITE: CS 1920 and CS 1610. CS 1610 may be taken as a co-requisite. Three hours per week</p> | <p>2520 Computer Organization and Architecture This course provides a basic understanding of the organization and architecture of modern computer systems. It examines the function and design of major hardware components both from a designer's perspective and through assembly language programming. Topics include components and their interconnection, internal/external memory, input/output subsystems, processors, computer arithmetic, instruction sets, addressing modes, and pipelining. PREREQUISITE: CS 1920 and CS 1610. CS 1610 may be taken as a co-requisite. Three hours per week</p> |
|--|---|

Rationale for Change: Remove CS 1610 as a prerequisite for this course as CS 1610 is no longer required for the CS program and is not planned on being offered.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Shannon Fitzpatrick | December 9, 2020 |
| Faculty/School Approval: Science Council | December 16, 2020 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | December 16, 2020 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #43

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Mathematical and Computational Sciences**

MOTION: To have the change in the course description and prerequisite for CS 2910 Computer Science III be approved as proposed.

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| <p>2910 Computer Science III</p> <p>This is the third course in the Computer Science programming sequence. It covers more advanced programming concepts in an object oriented language. It also serves as an introduction to data structures and software engineering. Topics included: the programming toolchain; threads; class generics; lists, stacks, queues and binary trees; streams and binary I/O, object serialization, networking (sockets and web interface); introduction to software engineering; relational database connectivity; and XML parsing.</p> <p>PREREQUISITE: CS 1920 and six hours of Mathematics</p> <p>Three lecture hours and 1.5 hours lab per week</p> | <p>2910 Computer Science III</p> <p>This is the third course in the Computer Science programming sequence. It covers more advanced programming concepts in an object oriented language. It also serves as an introduction to data structures and software engineering. Topics included: the programming toolchain; threads; class generics; lists, stacks, queues and binary trees; streams and binary I/O, object serialization, networking (sockets and web interface); introduction to software engineering; relational database connectivity; and XML parsing.</p> <p>Students will learn and apply advanced programming concepts in an object-oriented language. They will be introduced to software engineering with test-driven design and the use of version control to maintain their codebase. Students will gain mastery of an object-oriented language and design and implement data structures. Students will be introduced to the functional programming paradigm and multi-threaded programs.</p> <p>PREREQUISITE: CS 1920 and six credit hours of Mathematics</p> <p>Three lecture hours and 1.5 hours lab per week</p> |
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Rationale for Change: Updated learning objectives to account for changes in first year enacted in 2020.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Shannon Fitzpatrick | December 9, 2020 |
| Faculty/School Approval: Science Council | December 16, 2020 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | December 16, 2020 |
| Grad. Studies Dean's Approval: NA | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |



CALENDAR & CURRICULUM CHANGE

Motion #44

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Mathematical and Computational Sciences**

MOTION: To have the change in the course title and description for CS 3620 Software Design and Architecture be approved as proposed.

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|---|---|
| <p>3620 Software Design and Architecture This course examines the principles and best practices in object-oriented (OO) software design. Topics include a review of foundational OO concepts, OO design principles, classic design patterns, and software architectures. PREREQUISITE: CS 2920 Three lecture hours per week</p> | <p>3620 Software Design and Architecture This course examines the principles and best practices in object-oriented (OO) software design. Topics include a review of foundational OO concepts, OO design principles, classic design patterns, and software architectures. <u>and design patterns for good software design.</u> PREREQUISITE: CS 2920 Three lecture hours per week</p> |
|---|---|

Rationale for Change: Updated description to move software architecture to 4th year to give more room to software design material.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Shannon Fitzpatrick | December 9, 2020 |
| Faculty/School Approval: Science Council | December 16, 2020 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | December 16, 2020 |
| Grad. Studies Dean's Approval: NA | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #45

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Mathematical and Computational Sciences**

MOTION: To have the change in the course description and prerequisite for CS 4810 Software Engineering be approved as proposed.

| | |
|--|---|
| <p>4810 Software Engineering</p> <p>This course emphasizes the theory, methods and tools employed in developing medium to large-scale software which is usable, efficient, maintainable, and dependable. Project management is a major focus. Topics include traditional and agile process models, project costing, scheduling, team organization and management, requirements modelling/specification, software design, software verification and testing, and re-engineering.</p> <p>PREREQUISITE: 4th year standing in Computer Science</p> <p>Three lecture hours per week</p> | <p>4810 Software Engineering</p> <p>This course emphasizes the theory, methods and tools employed in developing medium to large-scale software which is usable, efficient, maintainable, and dependable. Project <u>planning and management is a major focus</u> <u>are major foci</u>. Topics include <u>traditional and agile process models, project costing, scheduling, team organization and management, requirements modelling/specification, software design, software verification and testing, and re-engineering.</u> <u>requirements modelling/specification, project costing, scheduling, software design, software architecture, traditional and agile process models, team management, and re-engineering.</u> Students will develop a project plan for a major project to be undertaken in CS 4820 or CS 4830.</p> <p>PREREQUISITE: 4th year standing in Computer Science- <u>CS 3620</u></p> <p>Three lecture hours per week</p> |
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Rationale for Change: Small change integrating software architecture.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Shannon Fitzpatrick | December 9, 2020 |
| Faculty/School Approval: Science Council | December 16, 2020 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | December 16, 2020 |
| Grad. Studies Dean's Approval: NA | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #46

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Mathematical and Computational Sciences**

MOTION: To have the change in the course description for CS 4820 Software System Project be approved as proposed.

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| <p>4820 Software System Project</p> <p>In this course, students propose, complete and present a significant software project in a group setting using the system development skills learned in CS 4810. The course applies object-oriented design principles through the use of UML. Students are encouraged to select (with the consent of the instructor) a project with a real-world client.</p> <p>PREREQUISITE: CS 4810 (May be taken concurrently in exceptional circumstances).</p> <p>One lecture hour per week plus significant project time</p> | <p>4820 Software System Project</p> <p>In this course, students propose, complete and present a significant software project in a group setting using the system development skills learned in CS 4810. The course applies object-oriented design principles through the use of UML. Students are encouraged to select (with the consent of the instructor) a project with a real-world client <u>students work in groups to complete and present a significant software project based on a project plan developed in CS 4810.</u></p> <p>PREREQUISITE: CS 4810 (May be taken concurrently in exceptional circumstances).</p> <p>One lecture hour per week plus significant project development time</p> |
|---|---|

Rationale for Change: Change to focus course on the project work and to increase flexibility of design for students.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Shannon Fitzpatrick | December 9, 2020 |
| Faculty/School Approval: Science Council | December 16, 2020 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | December 16, 2020 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #47

Revision is for a: **Course Deletion**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To delete PHYS 2220 Modern Physics for Life Sciences.

| | |
|---|--|
| <p>2220 MODERN PHYSICS FOR LIFE SCIENCES This course is a continuation of Physics 1220 intended for students in the life sciences, introducing additional physics concepts with emphasis on their application to biology and applied clinical physics. Topics include atomic physics, nuclear physics, x-rays, diagnostic nuclear medicine, radiation therapy, nuclear magnetic resonance. PREREQUISITE: Physics 1220, or Physics 1120 Three hours lecture per week</p> | <p>2220 MODERN PHYSICS FOR LIFE SCIENCES This course is a continuation of Physics 1220 intended for students in the life sciences, introducing additional physics concepts with emphasis on their application to biology and applied clinical physics. Topics include atomic physics, nuclear physics, x-rays, diagnostic nuclear medicine, radiation therapy, nuclear magnetic resonance. PREREQUISITE: Physics 1220, or Physics 1120 Three hours lecture per week</p> |
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Rationale for Change: As part of the recent Physics Program Quality Review, it was identified that the Department will look for efficiencies in the delivery of our service courses, while maintaining the essential curricular role physics as a discipline plays within the Science faculty and across campus. The Department is currently offering two second year courses in modern physics, one for life science students who are pursuing the cross-Department (with the Biology) Minor in Medical and Biological Physics, and one for physical science students. The Department of Physics has consulted with the Department of Biology and there is agreement to remove Modern Physics for Life Sciences (PHYS 2220) from this Minor and, as such, delete this course.

Effective Term: FALL 2021

Implications for Other Programs: No implications other than this course will be dropped from the Minor in Medical and Biological Physics program.

Impact on Students Currently Enrolled: This will have no negative impact on students, as students would still be able to take the modern physics course (PHYS 2210) as one of the course electives to satisfy the Minor. In addition, there are several other course options available to students to satisfy the Minor.

Authorization Date:

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | December 18, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle. | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #48

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the change in course description and prerequisite for PHYS 2020 Mechanics as proposed.

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| <p>2020 MECHANICS Using a more advanced treatment than in the 1000-level physics courses, this course gives the student a deeper understanding of the principles of mechanics. Topics include: vector kinematics, Newton's laws, momentum, work and energy, rotational motion, and central force motion. PREREQUISITE: Physics 1120 and Mathematics 2910, or permission of the instructor Three hours lecture per week</p> | <p>2020 MECHANICS Using a more advanced treatment than in the 1000-level physics courses, this course gives the student a deeper understanding of the principles of mechanics. Topics include: vector kinematics, Newton's laws, momentum, work and energy, rotational motion, and central force motion. <u>vector calculus and representations in different coordinate systems, oscillations, applications of Newtonian mechanics to generalized 3D motion of a particle, non-inertial reference systems, gravitation, and central forces.</u> PREREQUISITE: Physics 1120 and Mathematics 2910 1920, or permission of the instructor Three hours lecture per week</p> |
|--|---|

Rationale for Change: As part of the recent Program Quality Review, Physics 2020 will be offered in the Fall semester of second year. This requires a slight revision to the course description and prerequisites.

Effective Term: Fall 2021.

Implications for Other Programs: No implications.

Impact on Students Currently Enrolled: No impact. The changes better describes the current curriculum in the course.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | Dec 18, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #49

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the change in course title, description and prerequisite for PHYS 2610 Energy, Environment and the Economy as proposed.

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|---|---|
| <p>2610 ENERGY, ENVIRONMENT AND THE ECONOMY</p> <p>This course is directed to both science and non-science students who wish to improve their understanding of this major technological issue. Topics include: the basic concepts necessary to understand photosynthesis, nuclear power, acid deposition, the greenhouse effect, ozone depletion and pollution. Particular emphasis is placed on Canadian and PEI examples, and on the implications for Third World development.</p> <p>PREREQUISITE: Permission of the department</p> <p>Three hours lecture (seminars and/or field visits to be arranged)</p> | <p>2610 ENERGY, <u>AND THE ENVIRONMENT AND THE ECONOMY</u></p> <p>This course is directed to both science and non-science students who wish to improve their understanding of this major technological issue. Topics include: <u>the basic concepts necessary to understand photosynthesis, nuclear power, acid deposition, the greenhouse effect, ozone depletion and pollution. Particular emphasis is placed on Canadian and PEI examples, and on the implications for Third World development. the basic physics concepts necessary to understand the current and emerging renewable and non-renewable sources of energy, as well as their environmental and economic consequences.</u></p> <p>PREREQUISITE: <u>Physics 1210 or Physics 1110 or permission of the instructor department. (Proficiency in High School algebra, trigonometry and graphing is expected).</u></p> <p>Three hours lecture (seminars and/or online or in-person field visits to be arranged).</p> |
|---|---|

Rationale for Change: Update course to better reflect content delivery and applicability for students in environmental sciences programs.

Effective Term: FALL 2021

Implications for Other Programs: No implications.

Impact on Students Currently Enrolled: No impact.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | Dec 18, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #50

Revision is for a: **Course Number Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the change in course number, course description and prerequisite for PHYS 3820 Computational Physics as proposed.

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| <p>3820 COMPUTATIONAL PHYSICS</p> <p>This course is designed to provide students with direct experience in the use of advanced computer-based techniques for modelling physical systems. A variety of computational techniques are used to study a number of phenomena, including realistic projectile motion, chaotic motion, planetary dynamics, electromagnetism, wave motion, and quantum wave function dynamics. The course also provides an introduction to advanced molecular simulation methods, including Monte Carlo and molecular dynamics techniques.</p> <p>PREREQUISITE: Physics 2020 or Physics 2210, Mathematics 2910, and Computer Science 1910 or Engineering 1310</p> <p>Three hours lecture per week</p> | <p>(Formerly 3820) 2030 COMPUTATIONAL PHYSICS</p> <p>This course is designed to provide <u>introduce</u> students with direct experience in the use of advanced <u>to basic</u> computer-based techniques for modelling <u>realistic</u> physical systems. A variety of computational techniques are used to study a number of phenomena, including realistic projectile motion, chaotic motion, planetary dynamics, electromagnetism, and wave motion and quantum wave function dynamics. <u>and to graphically visualize functions and data in 3D.</u> The course also provides an introduction to advanced molecular simulation methods, including Monte Carlo and molecular dynamics techniques.</p> <p>PREREQUISITE: <u>Physics 2010</u> or Physics 2020 or Physics 2210, Mathematics 2910, and Computer Science 1910 or Engineering 1310</p> <p>Three hours lecture per week</p> |
|---|--|

Rationale for Change: As per the recent Program Quality Review, the Department is redesigning Computational Physics (PHYS 3820), renumbering it, and offering it in second year.

Effective Term: FALL 2021

Implications for Other Programs: No implications.

Impact on Students Currently Enrolled: No impact.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | December 18, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #51

Revision is for a: **Course Number Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the change in course number, title, description and prerequisite for PHYS 4410 Experimental Physics as proposed.

| | |
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| <p>4410 EXPERIMENTAL PHYSICS This advanced laboratory course introduces students to all phases of an experimental project, from design, planning, and setup of the apparatus, to detailed analysis and formal presentation of the results. Students choose a small number of in-depth experiments to perform. PREREQUISITE: Physics 2720, Physics 3120, and at least Third Year standing in a Science program One hour lecture, six hours laboratory per week</p> | <p>(Formerly 4410) 3330 EXPERIMENTAL PHYSICS I This advanced laboratory course introduces students to all phases of an experimental project, from design, planning, and setup of the apparatus, to detailed analysis and formal presentation of the results. Students choose a small number of in-depth experiments to perform. <u>This intermediate laboratory course is a collection of prescribed experiments designed for developing core experimental skills and conducting laboratory work in the major areas of physics covered in other third-year physics courses. The course will also develop students' knowledge of electronics and give them experience in scientific writing.</u> PREREQUISITE: Physics 2720, Physics 3120, and at least Third Year standing in a Science program, <u>Physics 3120, or permission of instructor.</u> One hour lecture, six hours laboratory per week</p> |
|--|--|

Rationale for Change: As part of the recent Program Quality Review, the Department is redesigning Experimental Physics (PHYS 4410) and offering it in third year. This will provide students with more laboratory experience at the third-year level.

Effective Term: FALL 2021

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | December 18, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |



CALENDAR & CURRICULUM CHANGE

Motion #52

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the change in course title, description and prerequisites for PHYS 3420 Introduction to Biomedical Physics as proposed.

| | |
|--|--|
| <p>3420 INTRODUCTION TO BIOMEDICAL PHYSICS This course provides students with an introduction to physics methods and methodology in medicine. Topics include: basic concepts in medical imaging, optical and fluorescence imaging, lasers in medicine, radiation transport in tissues, nuclear medicine, radiation dosimetry and therapy, and biomedical optics and acoustics applications. PREREQUISITE: Biology 1310, and Physics 2210 or Physics 2220. Otherwise, permission of the instructor is required Three hours lecture per week</p> | <p>3420 INTRODUCTION TO BIOMEDICAL PHYSICS This course provides students with an introduction to physics methods and methodology in medicine. Topics include: basic concepts in medical imaging, optical and fluorescence imaging, radiation sources and, lasers in medicine, radiation transport in tissues, nuclear medicine, radiation dosimetry and therapy, and biomedical optics and acoustics applications of lasers and ultrasound in medicine. PREREQUISITE: Biology 1310, and Physics 2210 1120 or Physics 2220-1220. Otherwise, permission of the instructor is required Three hours lecture per week</p> |
|--|--|

Rationale for Change: Physics 2220 is to be deleted and only students in Physics programs take Physics 2210. So this prerequisite change makes PHYS 3420 more accessible to students in life sciences programs interested in completing the Minor in Medical and Biological Physics. The description update is needed to pull in one main topic that was covered in PHYS 2220 and to make the description current as to what is being taught in the course.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None, as the proposed change makes this course more accessible to students.

Authorization Date:

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #53

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the change in course description and prerequisites for PHYS 3520 Biomedical Imaging as proposed.

3520 BIOMEDICAL IMAGING

This course concentrates on recent advanced modalities in medical imaging, and includes digital imaging, computed tomography, and digital fluoroscopy, as well as an introduction to bone mineral densitometry and magnetic resonance imaging.

PREREQUISITE: Physics 2210 or Physics 2220, or permission of the instructor
Three lecture hours per week

3520 BIOMEDICAL IMAGING

~~This course concentrates on recent advanced modalities in medical imaging, and includes digital imaging, computed tomography, and digital fluoroscopy, as well as an introduction to bone mineral densitometry and magnetic resonance imaging.~~ This course is an introduction to the physics of medical imaging for the four main modalities: x-ray, ultrasound, radionuclide, and magnetic resonance imaging. Basic concepts of light microscopy and image formation will also be included. The primary focus is on physical principles, instrumentation, image interpretation and application.
PREREQUISITE: Biology 1310, and Physics 2210 1120 or Physics 2220 1220, or permission of the instructor
Three lecture hours per week

Rationale for Change: The revised course description better reflects the course content. Physics 2220 is to be deleted and only students in Physics programs take Physics 2210. So this prerequisite change makes PHYS 3520 more accessible to students in life sciences programs interested in completing the Minor in Medical and Biological Physics.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None, as the proposed change makes Physics 3520 more accessible to students.

Authorization Date:

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #54

Revision is for a: **Course Description Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the change in course description and prerequisites for PHYS 4430 Experimental Physics II as proposed.

| | |
|--|---|
| <p>4430 EXPERIMENTAL PHYSICS II This advanced laboratory course introduces students to all phases of an experimental project, from design, planning, and setup of the apparatus, to detailed analysis and formal presentation of the results. Students perform a small number of in-depth experiments with special emphasis on electricity and magnetism, optics and mechanics. PREREQUISITE: Physics 2120, Physics 3120 and Physics 3220 or permission of the instructor One hour lecture, six hours laboratory per week</p> | <p>4430 EXPERIMENTAL PHYSICS II This advanced laboratory course introduces students to all phases of an experimental project, from design, planning, and setup of the apparatus, to detailed analysis and formal presentation of the results. Students perform <u>select</u> a small number of in-depth experiments with special emphasis on electricity and magnetism, optics and mechanics. <u>topics covered in the advanced physics courses.</u> PREREQUISITE: <u>Physics 3410</u>, Physics 2120, Physics 3120 and Physics 3220 or permission of the instructor One hour lecture, six hours laboratory per week</p> |
|--|---|

Rationale for Change: As part of the recent Program Quality Review, the Department is changing the course description of PHYS 4430 to align better with the newly renumbered Physics 3410 (Experimental Physics I).

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: William Whelan, Physics Chair | Dec 18, 2020 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #55

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the changes to the Minor in Medical and Biological Physics as proposed.

MINOR IN MEDICAL AND BIOLOGICAL PHYSICS

Students in the Minor Program in Medical and Biological Physics must complete a total of 21 semester hours of course credit, including these 4 core Physics courses:

General Physics for the Life Sciences:

Physics 1210 Physics for Life Sciences I or Physics 1110

General Physics I – 3 hours

Physics 1220 Physics for Life Sciences II or Physics

1120 General Physics II – 3 hours

Physics 2220 Modern Physics for Life Sciences or

Physics 2210 Modern Physics – 3 hours

Physics 2430 Physics of the Human Body – 3 hours

In addition, three electives (9 semester hours) must be chosen from the following suite of courses:

Foundations of Medical and Biological Physics:

Physics 2420 introduction to Biomechanics – 3 hours

Physics 3420 Introduction to Biomedical Physics – 3 hours

Physics 3510 Advanced Biomechanics – 3 hours

Physics 3520 Biomedical Imaging – 3 hours

Physics 3910 Radiation Detection and Measurement – 3 hours

Biology 2260 (formerly 3530) Human Anatomy and Histology – 3 hours

Biology 4010 Human Physiology & Pathophysiology – 3 hours

QEH 2310 Radiographic Physics – 3 hours (available only to students in the Radiography program)

MINOR IN MEDICAL AND BIOLOGICAL PHYSICS

Students in the Minor Program in Medical and Biological Physics must complete a total of 21 semester hours of course credit, including these 4 3 core Physics courses:

General Physics for the Life Sciences:

Physics 1210 Physics for Life Sciences I or Physics 1110

General Physics I – 3 hours

Physics 1220 Physics for Life Sciences II or Physics 1120

General Physics II – 3 hours

~~Physics 2220 Modern Physics for Life Sciences or~~

~~Physics 2210 Modern Physics – 3 hours~~

Physics 2430 Physics of the Human Body – 3 hours

In addition, ~~three~~ four electives (9 12 semester hours) must be chosen from the following suite of courses:

Foundations of Medical and Biological Physics:

Physics 2210 Modern Physics – 3 hours

Physics 2420 ~~i~~Introduction to Biomechanics – 3 hours

Physics 3420 Introduction to ~~Biom~~Medical Physics – 3 hours

Physics 3510 Advanced Biomechanics – 3 hours

Physics 3520 Biomedical Imaging – 3 hours

Physics 3910 Radiation Detection and Measurement – 3 hours

Biology 2260 (~~formerly 3530~~) Human Anatomy and Histology – 3 hours

Biology 4010 Human Physiology & Pathophysiology – 3 hours

RAD 2310 Radiographic Physics – 3 hours (available only to students in the Radiography program)

Rationale for Change: As part of the recent Physics Program Quality Review, it was identified that the Department will look for efficiencies in the delivery of our service courses, while maintaining the essential curricular role physics as a discipline plays within the Science faculty and across campus. The Department is currently offering two second year courses in modern physics, one for life science students

CALENDAR & CURRICULUM CHANGE

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who are pursuing the cross-Department (with the Biology) Minor in Medical and Biological Physics, and one for physical science students. The Department of Physics has consulted with the Department of Biology and there is agreement to remove Modern Physics for Life Sciences (PHYS 2220) from this Minor.

Effective Term: FALL 2021

Implications for Other Programs: No implications other than this course will be dropped from the Minor in Medical and Biological Physics program.

Impact on Students Currently Enrolled: This will have no negative impact on students, as students would still be able to take the modern physics course (PHYS 2210) as one of the course electives to satisfy the Minor. In addition, there are several other course options available to students to satisfy the Minor.

Authorization**Date:**

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #56

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the changes to the Requirements for a Major in Physics as proposed.

| REQUIREMENTS FOR A MAJOR IN PHYSICS | | REQUIREMENTS FOR A MAJOR IN PHYSICS | |
|---|--------------------------|---|--------------------------|
| Students who intend to major in Physics are advised to consult the Department before registration. The normal University requirements must be met in addition to the Departmental requirements listed below. In exceptional cases, courses may be taken in a different sequence provided that the pertinent prerequisites are fulfilled or permission is granted by the Department. | | Students who intend to major in Physics are advised to consult the Department before registration. The normal University requirements must be met in addition to the Departmental requirements listed below. In exceptional cases, courses may be taken in a different sequence provided that the pertinent prerequisites are fulfilled or permission is granted by the Department. | |
| | Semester hours of credit | | Semester hours of credit |
| First Year | | First Year | |
| Physics 1110-1120 | 6 | Physics 1110-1120 <u>General Physics I and II</u> | 6 |
| Mathematics 1910-1920 | 8 | Mathematics 1910-1920 <u>Single Variable Calculus I and II</u> | 8 |
| Chemistry 1110-1120 | 6 | Chemistry 1110-1120 <u>General Chemistry I and II</u> | 6 |
| Computer Science 1910 | 3 | Computer Science 1910 <u>Computer Science I</u> | |
| Electives (Biology 1310-1320 are highly recommended) | 9 | <u>UPEI 1010, 1020 OR 1030</u> | 3 |
| Second Year | | Electives (Biology 1310-1320 are highly recommended) | 9 6 |
| Physics 2010 | 3 | Second Year | |
| Physics 2020 | 3 | Physics 2010 <u>Waves and Oscillations</u> | 3 |
| Physics 2120 | 3 | Physics 2020 <u>Mechanics</u> | 3 |
| Physics 2210 | 3 | Physics 2120 <u>Electricity, Magnetism, and Circuits</u> | 3 |
| Physics 2820 | 3 | Physics 2210 <u>Modern Physics</u> | 3 |
| Mathematics 2610 | 3 | Physics 2820 <u>Mathematical Physics</u> | 3 |
| Mathematics 2910 | 4 | Physics 2840 <u>Computational Physics</u> | 3 |
| Electives | 9 | Mathematics 2610 <u>Linear Algebra I</u> | 3 |
| Third and Fourth Years | | Mathematics 2910 <u>Multivariable and Vector Calculus</u> | 4 |
| Physics 3120 | 3 | Electives | 9 6 |
| Physics 3220 | 3 | Third and Fourth Years | |
| Physics 3720 | 3 | Physics 3120 <u>Electromagnetism I</u> | 3 |
| Physics 4410 | | Physics 3220 <u>Quantum Physics I</u> | 3 |
| OR Physics 4430 | 3 | Physics 3410 <u>Experimental Physics I</u> | 3 |
| Physics- Four additional Physics courses taken at the 3000 level | | Physics 3720 <u>Statistical Physics I</u> | 3 |
| or above, but at least one must be above the 3000 level | 12 | Physics 4410 <u>Experimental Physics I</u> | |
| Electives (Mathematics 3010 is highly recommended) | 33 | OR Physics 4430 <u>Experimental Physics II</u> | 3 |

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|--|---|-----------------|
| | Physics- Four Three additional Physics courses taken at the 3000 level or above, but at least one must be above the 3000 level | 12 9 |
| | Electives (Mathematics 3010 is highly recommended) | 33 |
| | Total | 120 |

Rationale for Change: As per the recent Program Quality Review recommendation to add more computational physics and lab programming. PHYS 2840 and PHYS 3410 are now required courses. Course names are added to improve the viewing and understanding of the academic path.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #57

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the changes to the Specialization in Medical and Biological Physics as proposed.

| SPECIALIZATION IN MEDICAL AND BIOLOGICAL PHYSICS | SPECIALIZATION IN MEDICAL AND BIOLOGICAL PHYSICS |
|---|---|
| Students can specialize in Medical and Biological Physics within the Major in Physics program. | Students can specialize in Medical and Biological Physics within the Major in Physics program. |
| First Year | First Year |
| <ul style="list-style-type: none"> •Physics 1110-1120 •Mathematics 1910-1920 •Chemistry 1110-1120 •Computer Science 1910 •Biology 1210-1230 OR Biology 1310-1320 •Electives (3 semester hours) | <p style="text-align: right;"><u>Semester Hour of Credits</u></p> <ul style="list-style-type: none"> •Physics 1110-1120 <u>General Physics I and II</u> 6 •Mathematics 1910-1920 <u>Single Variable Calculus I and II</u> 8 •Chemistry 1110-1120 <u>General Chemistry I and II</u> 6 •Computer Science 1910 <u>Computer Science I</u> 3 •Biology 1210-1230 OR Biology 1310-1320 6 <u>UPEI 1010, 1020 OR 1030</u> 3 •Electives (3 semester hours) 3 |
| Second Year | Second Year |
| <ul style="list-style-type: none"> •Physics 2010 •Physics 2020 •Physics 2120 •Physics 2210 •Physics 2430 •Physics 2820 •Mathematics 2610 •Mathematics 2910 •Electives (6 semester hours) | <ul style="list-style-type: none"> •Physics 2010 <u>Waves and Oscillations</u> 3 •Physics 2020 <u>Mechanics</u> 3 •Physics 2120 <u>Electricity, Magnetism, and Circuits</u> 3 •Physics 2210 <u>Modern Physics</u> 3 •Physics 2430 <u>Physics of the Human Body</u> 3 •Physics 2820 <u>Mathematical Physics</u> 3 <u>Physics 2840 Computational Physics</u> 3 •Mathematics 2610 <u>Linear Algebra I</u> 3 •Mathematics 2910 <u>Multivariable and Vector Calculus</u> 4 •Electives (6 semester hours) 3 |
| Third and Fourth Years | Third and Fourth Years |
| <ul style="list-style-type: none"> •Physics 3120 •Physics 3220 •Physics 3420 •Physics 3520 •Physics 3720 •Physics 3910 •Physics 4410 OR Physics 4430 •Physics—One additional Physics course taken at the 400 level. (3 semester hours) •Electives (Biology 2260 and Biology 4010 are highly recommended. Mathematics 3010 is highly recommended) (33 semester hours) | <ul style="list-style-type: none"> •Physics 3120 <u>Electromagnetism I</u> 3 •Physics 3220 <u>Quantum Physics I</u> 3 <u>Physics 3410 Experimental Physics I</u> 3 •Physics 3420 <u>Introduction to Medical Physics</u> 3 •Physics 3520 <u>Biomedical Imaging</u> 3 |



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| | |
|--|---|
| | <ul style="list-style-type: none"> •Physics 3720 Statistical Physics I 3 •Physics 3910 Radiation Detection and Measurement 3 •Physics 4410 Experimental Physics I OR Physics 4430 Experimental Physics II 3 •Physics—One additional Physics course taken at the 400 level 3000 level or above. (3 semester hours) 3 •Electives (Biology 2260 and Biology 4010 are highly recommended. Mathematics 3010 is highly recommended) (33 semester hours) 33 Total 120 |
|--|---|

Rationale for Change: As per the recent Program Quality Review recommendation to add more computational physics and lab programming, PHYS 2840 and PHYS 3410 are now required courses. Course names are added to improve the viewing and understanding of the academic path. In addition, PHYS 3910 is moved from a required physics course and is now an elective physics course.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #58

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the changes to the Requirements for Honours in Physics as proposed.

REQUIREMENTS FOR HONOURS IN PHYSICS

The Honours program in Physics is intended to provide research experience at the undergraduate level. It is designed for students who are interested in continuing their studies at the graduate level in Physics or related fields, or who are planning careers where research experience would be an asset.

The Honours program comprises a total of 126 semester hours of course credit, including a research project worth 12 semester hours. A total of at least 60 semester hours of Physics is required (16 courses plus project).

COURSE REQUIREMENTS

The normal University requirements must be met in addition to the Departmental requirements listed below. Biology 1310 and 1320 are highly recommended electives.

| | Semester hours credit |
|--|-----------------------|
| First Year | |
| Physics 1110-1120 | 6 |
| Mathematics 1910-1920 | 8 |
| Computer Science 1910 | 3 |
| Chemistry 1110-1120 | 6 |
| Electives (Biology 1310-1320 are highly recommended) | 9 |
| Second Year | |
| Physics 2010 | 3 |
| Physics 2020 | 3 |
| Physics 2120 | 3 |
| Physics 2210 | 3 |
| Physics 2820 | 3 |
| Mathematics 2610 | 3 |
| Mathematics 2910 | 4 |
| Electives | 9 |
| Third and Fourth Years | |
| Physics 3010 | 3 |
| Physics 3120 | 3 |
| Physics 3220 | 3 |

REQUIREMENTS FOR HONOURS IN PHYSICS

The Honours program in Physics is intended to provide research experience at the undergraduate level. It is designed for students who are interested in continuing their studies at the graduate level in Physics or related fields, or who are planning careers where research experience would be an asset.

The Honours program comprises a total of 126 semester hours of course credit, including a research project worth 12 semester hours. A total of at least ~~60~~ 63 semester hours of Physics is required (~~16~~ 17 courses plus project).

COURSE REQUIREMENTS

The normal University requirements must be met in addition to the Departmental requirements listed below. Biology 1310 and 1320 are highly recommended electives.

| | Semester hours of credit |
|--|--------------------------|
| First Year | |
| Physics 1110-1120 <u>General Physics I and I</u> | 6 |
| Mathematics 1910-1920 <u>Single Variable Calculus I and II</u> | 8 |
| Computer Science 1910 <u>Computer Science I</u> | 3 |
| Chemistry 1110-1120 <u>General Chemistry I and II</u> | 6 |
| <u>UPEI 1010, 1020 OR 1030</u> | 3 |
| Electives (Biology 1310-1320 are highly recommended) | 9 <u>6</u> |
| Second Year | |
| Physics 2010 <u>Waves and Oscillations</u> | 3 |
| Physics 2020 <u>Mechanics</u> | 3 |
| Physics 2120 <u>Electricity, Magnetism, and Circuits</u> | 3 |
| Physics 2210 <u>Modern Physics</u> | 3 |
| Physics 2840 <u>Computational Physics</u> | 3 |
| Physics 2820 <u>Mathematical Physics</u> | 3 |
| Mathematics 2610 <u>Linear Algebra I</u> | 3 |
| Mathematics 2910 <u>Multivariable and Vector Calculus</u> | 4 |
| Electives | 9 <u>6</u> |



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| | | | |
|--|----|--|------------|
| Physics 3720 | 3 | Third and Fourth Years | |
| Physics 4020 | 3 | Physics 3010 <u>Advanced Mechanics</u> | 3 |
| Physics 4120 | 3 | Physics 3120 <u>Electromagnetism I</u> | 3 |
| Physics 4210 | 3 | Physics 3220 <u>Quantum Physics I</u> | 3 |
| Physics 4410 | | Physics 3410 <u>Experimental Physics I</u> | 3 |
| OR Physics 4430 | 3 | Physics 3720 <u>Statistical Physics I</u> | 3 |
| Physics 4900 | 12 | Physics 4020 <u>Statistical Physics II</u> | 3 |
| Mathematics 3010 | 3 | Physics 4120 <u>Electromagnetism II</u> | 3 |
| At least one additional Math course at the 3000 or 4000 level | 3 | Physics 4210 <u>Quantum Physics II</u> | 3 |
| Electives, at least one of which must be an additional Physics Course at the 3000 level or above | 21 | Physics 4410 <u>Experimental Physics I</u> | |
| | | OR Physics 4430 <u>Experimental Physics II</u> | 3 |
| | | Physics 4900 <u>Advanced Research and Thesis</u> | 12 |
| | | Mathematics 3010 <u>Differential Equations</u> | 3 |
| | | At least one additional Math course at the 3000 or 4000 level | 3 |
| | | Electives, at least one of which must be an additional Physics Course at the 3000 level or above | 21 18 |
| | | Total | 126 |

Rationale for Change: As per the recent Program Quality Review recommendation to add more computational physics and lab programming, PHYS 2840 and PHYS 3410 are now required courses. Course names are added to improve the viewing and understanding of the academic path.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #59

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To approve the changes to the Specialization in Medical and Biological Physics (Honours) as proposed.

| SPECIALIZATION IN MEDICAL AND BIOLOGICAL PHYSICS | SPECIALIZATION IN MEDICAL AND BIOLOGICAL PHYSICS |
|--|--|
| Students can specialize in Medical and Biological Physics within the Honours in Physics program. | Students can specialize in Medical and Biological Physics within the Honours in Physics program. |
| First Year | First Year |
| Physics 1110-1120 | Physics 1110-1120 <u>General Physics I and II</u> 6 |
| Mathematics 1910-1920 | Mathematics 1910-1920 <u>Single Variable Calculus I and II</u> 8 |
| Chemistry 1110-1120 | Chemistry 1110-1120 <u>General Chemistry I and II</u> 6 |
| Computer Science 1910 | Computer Science 1910 <u>Computer Science I</u> 3 |
| Biology 1210-1230 OR Biology 1310-1320 | Biology 1210-1230 OR Biology 1310-1320 6 |
| Electives (3 semester hours) | <u>UPEI 1010, 1020 OR 1030</u> 3 |
| Second Year | Second Year |
| Physics 2010 | Physics 2010 <u>Waves and Oscillations</u> 3 |
| Physics 2020 | Physics 2020 <u>Mechanics</u> 3 |
| Physics 2120 | Physics 2120 <u>Electricity, Magnetism, and Circuits</u> 3 |
| Physics 2210 | Physics 2210 <u>Modern Physics</u> 3 |
| Physics 2430 | Physics 2430 <u>Physics of the Human Body</u> 3 |
| Physics 2820 | Physics 2840 <u>Computational Physics</u> 3 |
| Mathematics 2610 | Physics 2820 <u>Mathematical Physics</u> 3 |
| Mathematics 2910 | Mathematics 2610 <u>Linear Algebra I</u> 3 |
| Electives (6 semester hours) | Mathematics 2910 <u>Multivariable and Vector Calculus</u> 4 |
| Third and Fourth Years | Third and Fourth Years |
| Physics 3010 | Electives (6 semester hours) 3 |
| Physics 3120 | Physics 3010 <u>Advanced Mechanics</u> 3 |
| Physics 3220 | Physics 3120 <u>Electromagnetism I</u> 3 |
| Physics 3420 | Physics 3220 <u>Quantum Physics I</u> 3 |
| Physics 3520 | Physics 3410 <u>Experimental Physics I</u> 3 |
| Physics 3720 | Physics 3420 <u>Introduction to Medical Physics</u> 3 |
| Physics 3910 | Physics 3520 <u>Biomedical Imaging</u> 3 |
| Physics 4020 | Physics 3720 <u>Statistical Physics I</u> 3 |
| Physics 4120 | Physics 3910 <u>Radiation Detection and Measurement</u> 3 |
| Physics 4210 | Physics 4020 <u>Statistical Physics II</u> 3 |
| Physics 4410 OR Physics 4430 | |
| Physics 4900 | |
| Mathematics 3010 | |
| At least one additional Math course at the 3000 or 4000 level | |
| Electives, at least one of which must be an additional | |

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| | |
|--|---|
| <p>Physics course at the 300 level or above (Biology 2260 and Biology 4010 are highly recommended, if Biology 1210-1230 NOT taken.) (12 semester hours)</p> <p>The honours research project will be relevant to Medical or Biological physics.</p> | <p>Physics 4120 <u>Electromagnetism II</u> 3</p> <p>Physics 4210 <u>Quantum Physics II</u> 3</p> <p>Physics 4410 <u>Experimental Physics I</u></p> <p>OR Physics 4430 <u>Experimental Physics II</u> 3</p> <p>Physics 4900 <u>Advanced Research and Thesis</u> 12</p> <p>Mathematics 3010 <u>Differential Equations</u> 3</p> <p>At least one additional Math course at the 3000 or 4000 level 3</p> <p>Electives, at least one of which must be an additional Physics course at the 3000 level or above (Biology 2260 and Biology 4010 are highly recommended, if Biology 1210-1230 NOT taken.) (12 semester hours) 12</p> <p><u>Total</u> 126</p> <p>The honours research project will be relevant to Medical or Biological pPhysics.</p> |
|--|---|

Rationale for Change: As per the recent Program Quality Review recommendation to add more computational physics and lab programming, PHYS 2840 and PHYS 3410 are now required courses. Course names are added to improve the viewing and understanding of the academic path. In addition, PHYS 3910 is removed as a required physics course and is now an elective physics course.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #60

Revision is for a: **Calendar Entry Change/Program Deletion**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics**

MOTION: To delete the BSc with a Major in Physics for Engineering Diploma Students.

| REQUIREMENTS FOR A BSc WITH A MAJOR IN PHYSICS FOR ENGINEERING DIPLOMA STUDENTS | REQUIREMENTS FOR A BSc WITH A MAJOR IN PHYSICS FOR ENGINEERING DIPLOMA STUDENTS |
|---|--|
| <p>Students enrolled in the Engineering Diploma program may wish to take additional Physics courses and work towards a Bachelor of Science degree. Students intending to enter this program should consult the Physics Department for detailed advice on course selection.</p> | <p>Students enrolled in the Engineering Diploma program may wish to take additional Physics courses and work towards a Bachelor of Science degree. Students intending to enter this program should consult the Physics Department for detailed advice on course selection.</p> |
| <p>Semester hours of credit</p> | <p>Semester hours of credit</p> |
| <p>First Year Physics 1110-1120 6</p> | <p>First Year Physics 1110-1120 -6</p> |
| <p>Second Year Physics 2010 3 Physics 2020 (for students enrolled in the Engineering Diploma Program, this may be replaced by Engineering 3210 3 Physics 2210 3</p> | <p>Second Year Physics 2010 -3 Physics 2020 (for students enrolled in the Engineering Diploma Program, this may be replaced by Engineering 3210 -3 Physics 2210 -3</p> |
| <p>Third and Fourth Years Physics 3120 3 Physics 3810 3 Physics—At least seven additional courses taken from the following: Physics 2020 (if not already counted above), 2410, 2720, 3220, 3420, 3720, 3820, 3910, 4020, 4120, 4140, 4210, 4220, 4310, 4410, 4510, 4810, and Engineering 3420, 3820. At least one of the courses chosen must be at the 4000 level 21</p> | <p>Third and Fourth Years Physics 3120 -3 Physics 3810 -3 Physics—At least seven additional courses taken from the following: Physics 2020 (if not already counted above), 2410, 2720, 3220, 3420, 3720, 3820, 3910, 4020, 4120, 4140, 4210, 4220, 4310, 4410, 4510, 4810, and Engineering 3420, 3820. At least one of the courses chosen must be at the 4000 level -21</p> |
| <p>The student must also complete all the requirements for the Engineering Diploma, and take sufficient courses (including Engineering courses) to satisfy the general requirements for a University degree. A total of 120</p> | <p>The student must also complete all the requirements for the Engineering Diploma, and take sufficient courses (including Engineering courses) to satisfy the general requirements for a University degree. A total of 120</p> |



CALENDAR & CURRICULUM CHANGE

Motion #60

| | |
|---------------------------------------|---------------------------------------|
| semester hours of credit is required. | semester hours of credit is required. |
|---------------------------------------|---------------------------------------|

Rationale for Change: To delete this program now that the Engineering Diploma Program is no longer an academic program at UPEI.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: William Whelan, Physics Chair | January 8, 2021 |
| Faculty/School Approval: Science Council | January 20, 2021 |
| Faculty Dean's Approval: Nola Etkin, Dean of Science | January 20, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

SUMMARY OF FACULTY OF GRADUATE STUDIES MOTION #'S 61-63

AVC Graduate Studies and Research**Summary page**

New Course Proposal VPM 8448 – Advanced Diagnostic Aquatic Pathology

Calendar Entry Change – Prescribed Studies in MSc and PhD program – Veterinary Medicine

NEW COURSE PROPOSAL

Motion #61

Faculty/School: **Veterinary Medicine**

Department/Program(s): **Pathology and Microbiology**

MOTION: That a new course VPM 8448 Advanced Diagnostic Aquatic Pathology be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | 8448 Advanced Diagnostic Aquatic Pathology |
| Description | In this course, the student gains more advanced experience in diagnostic techniques for aquatic species submitted for postmortem diagnosis. Recognition of diseases, pathogenesis and morphologic diagnoses are further emphasized. The student is required to complete 30 cases. The report on every case is to include a summary of all ancillary tests done in other units of the diagnostic laboratory. Selected cases are discussed at weekly pathology rounds. In addition, the student is exposed to techniques in histology, histochemistry, immunohistochemistry, and macro- and micro-photography. |
| Cross-Listing | N/A |
| Prerequisite/Co-Requisite | DVM or equivalent degree and VPM 8447 |
| Credit(s) | 3 |
| Notation | 6 lab hours |

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 1-2 students at this time

Is there an Enrolment Cap: Yes

Although enrollment is primarily aimed at Master of Veterinary Science students/residents, of which there typically would be just one-two students at a time, the course would also be available to other graduate students in MSc and PhD programs who require an applied course. Practical courses in diagnostics using real-case material are very time intensive for the instructor and require a lot of one-on-one training to ensure that diagnostic cases are reported accurately and within the expected turn-around time. An enrollment cap of 3 would be set.

Rationale for New Course: It is proposed as the fourth and final course in a diagnostic aquatic pathology courses series. This series of courses would teach the practical skills necessary for this program (which is meant to mirror our residency/MVSc in anatomic pathology). Students in this course normally will be pursuing advanced diagnostic aquatic pathology experience.

Effective Term: FALL 2021

Implications for Other Programs: Not applicable to other programs – see above.

Impact on Students Currently Enrolled: N/A

Resources Required: N/A

In offering this course will UPEI require facilities or staff at other institutions: No

If yes, please explain.

NEW COURSE PROPOSAL

Motion #61

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Dr. Fred Kibenge | February 10, 2020 |
| Faculty/School Approval: AVC Graduate Studies Committee | February 18, 2020 |
| Faculty Dean's Approval: Dean Greg Keefe | March 3, 2020 |
| Graduate Studies Dean's Approval: Dr. Rabin Bissessur | January 21, 2021 |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

NEW COURSE PROPOSAL

Motion #61

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VPM 8448 Advanced Diagnostic Aquatic Pathology

Library Resource Requirements *(to be completed by the liaison and/or collections librarian)*

Existing resources:

- Collections - Holdings, Subscriptions, Other
- Subscription Dependencies (in interdisciplinary packages)
- Physical Space in Library (other than holdings, explain)
- Library Administrative/Research Support

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*
- Collections:
 - Monographs
 - Subscriptions
 - Databases
 - Other
- Physical Space in Library (other than holdings, explain)
- Library Administrative/Research Support
- Other One-Time or Ongoing Library expenses (e.g. software licenses)

Summary of additional budget allocation required:

- One-time: _____0_____ For each of ____0____ consecutive years
- Annual: _____0_____
 - Per-year percentage increase in annual: ____0____

Does the budget allocation for library resources in this proposal meet the requirement?

| | |
|--|--------------------|
| Date Received by Liaison/Collections Librarian | March 3, 2020 |
| Name of Librarian to be Contacted for Questions | Kim Mears |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | September 12, 2020 |

Form Version: May/2020

CALENDAR & CURRICULUM CHANGE

Motion #62

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Veterinary Medicine**

Department/Program(s)/Academic Regulations: **Graduate Studies / MSc**

MOTION: To revise the Prescribed Studies section of the Master of Science Program - Veterinary Medicine as proposed.

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|---|---|
| <p>Master of Science (Science and Veterinary Medicine) MSc Program (Faculty of Veterinary Medicine)</p> <p>Substantive courses are graduate level courses assigned a minimum of two credit hours. Students are required to complete courses totalling a minimum of twelve credit hours. Within this course complement there must be at least four substantive courses and the appropriate departmental Seminar course (one credit). Only one of the substantive courses may be a Directed Studies Course.</p> <p>All students are expected to complete VHM 8010 (Veterinary Biostatistics) and VBS 8030 (Principles of Biomedical Research) unless comparable training has been completed prior to entry into the program.</p> | <p>Master of Science (Science and Veterinary Medicine) MSc Program (Faculty of Veterinary Medicine)</p> <p>Substantive courses are graduate level courses assigned a minimum of two credit hours. Students are required to complete courses totalling a minimum of twelve credit hours. Within this course complement there must be at least four substantive courses and the appropriate departmental Seminar course (one credit) Only one of the substantive courses may be a Directed Studies Course.</p> <p>All students are expected to complete VHM 8010 (Veterinary Biostatistics) and VBS 8030 (Principles of Biomedical Research) unless comparable training has been completed prior to entry into the program.</p> |

Rationale for Change: Although the MSc degree is primarily a research degree, the student usually requires a base of knowledge and expertise to pursue their research. GSR (AVC) Committee agreed that VBS 8030 should no longer be a required course because there are many components already covered prior to entering the program or are more appropriately addressed through other means (e.g. workshops not for credit but listed in their program approval as proposed by the Supervisory Committee).

Effective Term: FALL 2021

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: N/A. Many students and their supervisors are anticipating this change and can accommodate it in their course plans.

Authorization

Date:

| | |
|--|--------------------|
| Departmental Approval: Larry Hammell | August 10, 2020 |
| Faculty/School Approval: AVC Grad. Studies & Research Cmt. | September 18, 2020 |
| Faculty Dean's Approval: Dean Greg Keefe | November 4, 2020 |
| Graduate Studies Dean's Approval: Dr. Rabin Bissessur | January 19, 2021 |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #63

Revision is for a: **Calendar Entry Change**

Faculty/School/Department: **Veterinary Medicine**

Department/Program(s)/Academic Regulations: **Graduate Studies / PhD**

MOTION: To revise the Prescribed Studies section of the Doctor of Philosophy Program - Veterinary Medicine as proposed.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>Doctor of Philosophy Program (PhD) – Veterinary Medicine</p> <p>C) COURSES</p> <p>The PhD degree is primarily a research degree; for that reason course work commonly comprises a smaller proportion of the total than is the case at the level of the Master's degree.</p> <p>Prescribed Studies</p> <p>In the Faculty of Veterinary Medicine, substantive courses are graduate level courses assigned a minimum of two credit hours. In the PhD program students are required to complete courses totalling a minimum of 12 credit hours. Within this course complement there must be at least four substantive courses and the appropriate departmental Seminar course (one credit). Only one of the substantive courses may be a Directed Studies course.</p> <p>All students are expected to complete VHM 8010 (Veterinary Biostatistics) and VBS 8030 (Principles of Biomedical Research) unless comparable training has been completed prior to entry into the program. In some cases, on the recommendation of the Supervisory Committee and with the approval of the Graduate Studies and Research Committee, exemptions may be granted for some of the course requirement in recognition of previous academic work. For graduate credit, the courses selected must be acceptable to the department and the Graduate Studies and Research Committee. These "substantive" courses and/or general examinations comprise the candidate's prescribed studies, in which the student must obtain an overall average grade of at least second-class standing</p> | <p>Doctor of Philosophy Program (PhD) – Veterinary Medicine</p> <p>C) COURSES</p> <p>The PhD degree is primarily a research degree; for that reason course work commonly comprises a smaller proportion of the total than is the case at the level of the Master's degree.</p> <p>Prescribed Studies</p> <p>In the Faculty of Veterinary Medicine, substantive courses are graduate level courses assigned a minimum of two credit hours. In the PhD program students are required to complete courses totalling a minimum of 12 credit hours. Within this course complement there must be at least four substantive courses and the appropriate departmental Seminar course (one credit) one of the substantive courses may be a Directed Studies course.</p> <p>All students are expected to complete VHM 8010 (Veterinary Biostatistics) and VBS 8030 (Principles of Biomedical Research) unless comparable training has been completed prior to entry into the program. In some cases, on the recommendation of the Supervisory Committee and with the approval of the Graduate Studies and Research Committee, exemptions may be granted for some of the course requirements in recognition of previous academic work. For graduate credit, the courses selected must be acceptable to the department and the Graduate Studies and Research Committee. These "substantive" courses and/ or general examinations comprise the candidate's prescribed studies, in which the student must obtain an overall average grade of at least second-class standing</p> |

CALENDAR & CURRICULUM CHANGE

Motion #63

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| (see Grades in General Regulations section). A department may require examinations (oral and/or written), from time to time, to evaluate the student's progress in his/her overall program. | (see Grades in General Regulations section). A department may require examinations (oral and/or written), from time to time, to evaluate the student's progress in <u>his/her</u> their overall program. |

Rationale for Change: GSR (AVC) Committee agreed that VBS 8030 should no longer be a required course because there are many components already covered prior to entering the program or are more appropriately addressed through other means (e.g. workshops not for credit but listed in their program approval as proposed by the Supervisory Committee).

Effective Term: FALL 2021

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: N/A. Many students and their supervisors are anticipating this change and can accommodate it in their course plans.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Larry Hammell | August 10, 2020 |
| Faculty/School Approval: AVC Grad. Studies & Research Cmt. | September 18, 2020 |
| Faculty Dean's Approval: Dean Greg Keefe | November 4, 2020 |
| Graduate Studies Dean's Approval: Dr. Rabin Bissessur | January 19, 2021 |
| Registrar's Office Approval: Darcy McCardle | February 16, 2021 |

Form Version: May/2020



CALENDAR & CURRICULUM CHANGE

Motion #64

Revision is for a: **Course Description Change**

Faculty/School/Department: **UPEI 101/102/103**

Department/Program(s)/Academic Regulations: **Academic Regulations**

MOTION: To add a note to UPEI 1010 Academic Writing to allow credit for only one of the First Year Experience courses (UPEI 1010, 1020 or 1030).

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>1010 ACADEMIC WRITING (Offered every semester)</p> <p>This course offers an introduction to university writing and rhetoric, aimed at the development of clear, critical thinking and an effective prose style.</p> <p>Cross-listed with UPEI 1010.</p> <p>PREREQUISITE: Successful completion (a passing grade) of the English Academic Program (EAP) program for those students enrolled in the EAP program.</p> <p>Three hours a week</p> | <p>1010 ACADEMIC WRITING (Offered every semester)</p> <p>This course offers an introduction to university writing and rhetoric, aimed at the development of clear, critical thinking and an effective prose style.</p> <p>Cross-listed with UPEI 1010.</p> <p>PREREQUISITE: Successful completion (a passing grade) of the English Academic Program (EAP) program for those students enrolled in the EAP program.</p> <p><u>Note: Credit will only be granted for one (1) of the UPEI First Year Experience courses (UPEI-1010/ENG-1010, UPEI-1020 OR UPEI-1030).</u></p> <p>Three hours a week</p> |

Rationale for Change: The intention of these courses is to provide each undergraduate student foundational preparation for success in the remainder of their undergraduate studies. Students are expected to select one of the course options within their first three semesters of study, and not choose these courses as elective credits. Limiting credit to only one of the three ensures that these courses are being completed for the intended preparatory purpose.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization

Date:

| | |
|---|-------------------|
| Departmental Approval: N/A | N/A |
| Faculty/School Approval: N/A | N/A |
| Faculty Dean's Approval: Dr. N. Kujundzic | February 25, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 19, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #65

Revision is for a: **Course Description Change**

Faculty/School/Department: **UPEI 101/102/103**

Department/Program(s)/Academic Regulations: **Academic Regulations**

MOTION: To add a note to UPEI 1020 Inquiry studies to allow credit for only one of the First Year Experience courses (UPEI 1010, 1020 or 1030).

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>UPEI 1020 INQUIRY STUDIES – ENGAGING IDEAS AND CULTURAL CONTEXTS</p> <p>This course is for students who want to explore a broad array of issues and ‘big’ questions that are related to human culture and the natural world from a local to a global perspective. This course emphasizes and cultivates critical inquiry, writing and reading skills through an analysis of texts/topics of contemporary significance.</p> <p>Three hours a week</p> | <p>UPEI 1020 INQUIRY STUDIES – ENGAGING IDEAS AND CULTURAL CONTEXTS</p> <p>This course is for students who want to explore a broad array of issues and ‘big’ questions that are related to human culture and the natural world from a local to a global perspective. This course emphasizes and cultivates critical inquiry, writing and reading skills through an analysis of texts/topics of contemporary significance.</p> <p><u>Note: Credit will only be granted for one (1) of the UPEI First Year Experience courses (UPEI-1010/ENG-1010, UPEI-1020 OR UPEI-1030).</u></p> <p>Three hours a week</p> |

Rationale for Change: The intention of these courses is to provide each undergraduate student foundational preparation for success in the remainder of their undergraduate studies. Students are expected to select one of the course options within their first three semesters of study, and not choose these courses as elective credits. Limiting credit to only one of the three ensures that these courses are being completed for the intended preparatory purpose.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: N/A | N/A |
| Faculty/School Approval: N/A | N/A |
| Faculty Dean’s Approval: Dr. N. Kujundzic | February 25, 2021 |
| Grad. Studies Dean’s Approval: N/A | N/A |
| Registrar’s Office Approval: Darcy McCardle | February 19, 2021 |

CALENDAR & CURRICULUM CHANGE

Motion #66

Revision is for a: **Course Description Change**

Faculty/School/Department: **UPEI 101/102/103**

Department/Program(s)/Academic Regulations: **Academic Regulations**

MOTION: To add a note to UPEI 1030 University Studies to allow credit for only one of the First Year Experience courses (UPEI 1010, 1020 or 1030).

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>UPEI 1030 UNIVERSITY STUDIES – ENGAGING UNIVERSITY CONTEXTS AND EXPERIENCE</p> <p>This is a course for students who seek a well-supported, strongly integrated adjustment to life and learning within the university environment. This course is designed to create a cohesive learning community for students, connecting them to each other and to their instructors in the classroom and beyond. The curriculum focuses on helping students to develop the attitudes, study strategies, and broad communication and research skills they will need to thrive throughout their post-secondary experience.</p> <p>Three hours a week</p> | <p>UPEI 1030 UNIVERSITY STUDIES – ENGAGING UNIVERSITY CONTEXTS AND EXPERIENCE</p> <p>This is a course for students who seek a well-supported, strongly integrated adjustment to life and learning within the university environment. This course is designed to create a cohesive learning community for students, connecting them to each other and to their instructors in the classroom and beyond. The curriculum focuses on helping students to develop the attitudes, study strategies, and broad communication and research skills they will need to thrive throughout their post-secondary experience.</p> <p><u>Note: Credit will only be granted for one (1) of the UPEI First Year Experience courses (UPEI-1010/ENG-1010, UPEI-1020 OR UPEI-1030).</u></p> <p>Three hours a week</p> |

Rationale for Change: The intention of these courses is to provide each undergraduate student foundational preparation for success in the remainder of their undergraduate studies. Students are expected to select one of the course options within their first three semesters of study, and not choose these courses as elective credits. Limiting credit to only one of the three ensures that these courses are being completed for the intended preparatory purpose.

Effective Term: FALL 2021

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: N/A | N/A |
| Faculty/School Approval: N/A | N/A |
| Faculty Dean's Approval: Dr. N. Kujundzic | February 25, 2021 |
| Grad. Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Darcy McCardle | February 19, 2021 |

