

Minutes of the First Meeting of Senate
Friday, September 10, 2021
3:00 – 5:00 pm
Alumni Hall and Via Zoom

Present: A. Abd-El-Aziz (Chair), D. Sutton (Secretary to Senate) R. Bissessur, A. Braithwaite, M. Buote, B. Campbell, D. Coll, E. Côté, D. Dahn, R. Dennis, L. Doiron, A. Doyle, N. Etkin, K. Gottschall-Pass, L. Heider, G. Keefe, N. Kujundzic, C. Lavoie, M. LeClair, B. Linkletter, T. Mady, J. MacDonald, A. MacKenzie, S. MacLean, K. Mears, T. Miller, W. Montelpare, J. Moran, D. Moses, A. Muralidharan, C. Murray, M. Murray, J. Perry, W. Peters, J. Podger, R. Raiswell, C. Ryan, J. Stewart, B. Stoughtan, A. Trivett, B. Waterman, A. Zinck, M. Arfken

Regrets: A. Fitzgerald, J. McIntyre, T. Ngo, J. Spears, C. Stevenson

Guests: D. McCardle, N. Phillips, M. Rejskind, A. Bodaghkhani, W. Whelan

Recorder: M. Arbing

President Abd-El-Aziz called the meeting to order at 3:08 pm and welcomed guests to today's meeting noting that for any in-camera items, guests will need to exit the meeting and are welcome to rejoin once the meeting returns to open session.

1. Approval of Agenda

MOTION (N.Etkin/T. Mady) to approve the agenda as presented. UNANIMOUSLY CARRIED.

2. Approval of Minutes – May 3, 2021

MOTION (W. Montelpare/B. Waterman) to approve the minutes of May 3, 2021 as presented. UNANIMOUSLY CARRIED.

3. President's Report

The President reviewed enrollment numbers for the Fall 2021 semester. He attributed the success of our Fall 2021 semester to the faculty who continue to do an amazing job during these unprecedented days as well as the staff who are the backbone of our great institution. He expressed his appreciation to the students who choose UPEI as their home.

The President indicated that he has been working for several years on health education at UPEI. He indicated that he is working on expansion of the Faculty of Nursing with Dr. Jo-Ann MacDonald and Dr. Christina Murray, as well the expansion of the UPEI Health and Wellness Centre to ensure that it will serve all of our faculty, staff, students and their dependents. As well, he spoke about the development of a Faculty of Medicine that can offer a co-degree with the Faculty of Medicine at

Senate Meeting Minutes –September 10, 2021

MUN and the reason behind this is that the Faculty of Medicine at MUN focuses on rural and family medicine and Indigenous health. The President also indicated that the Government of PEI has been very supportive of this idea as it covers many different areas and integrates very well with other strengths we have here in our University such as the Faculty of Veterinary Medicine, the Faculty of Science, the Faculty of Nursing and the Doctor of Psychology Program as well as our current UPEI Health and Wellness Centre which can act as a great place for training of students from both the Faculty of Nursing and the Faculty of Medicine as well as its relationship to the UPEI Psychology Clinic.

A number of questions were posed. The President stated that new funding for these initiatives is being sought from the Government and it will not take from existing funds, but rather, will support other programs that will be involved in these initiatives.

Senator Ryan was pleased that there were so many potential connections between the Faculty of Arts and Medicine and she referenced rural and family medicine, do not happen without integration.

Senator Etkin was very supportive and indicated that many students in science do pre medicine here and then go off island to join a medical school. This will give them the opportunity to stay on the island.

Senator Greg Keefe spoke about his support and indicated very clearly that the intersection of animal, human and the environment is very important and AVC is working on enhancing infrastructure and imaging that can support both animal and human medicine.

Senator Kim Mears referenced human and animal health libraries and her disappointment that the library was not included in these discussions. She posed a question in relation to the Library and whether they were involved since the beginning in discussions regarding these initiatives because medical faculties have accreditation requirements for information resources and information literacy/digital literacy.

The President indicated that the University Librarian as well as the Chief Information Officer have been involved in preliminary discussions with the librarian at MUN and once we receive government approval, the University Librarian will continue to work with the library at MUN.

Senator Moses indicated that he has been in contact with the librarian at MUN.

Senator Braithwaite echoed excitement and the connection to medical humanities and she had a question in regards to what would the increase in faculty complement be.

The President said that while the government is still working on the full package for the development of the medical school, expansion of the UPEI Health and Wellness Centre, they have already given us some resources to start with the expansion in the Faculty of Nursing which included hiring a tenure-track faculty member, a clinical nurse instructor and an administrative assistant. The government also gave support to our Doctor of Psychology Program with an

additional clinical psychologist. The President also indicated that it is his hope that the government will support the human infrastructure that is required for all of these activities. The President also indicated that in the proposal there are 20 seats for students per year for four years and also the request was for 10 faculty.

Senator Linkletter spoke about the interaction between a medicine program and the Faculty of Science.

Senator MacDonald expressed her support for this initiative and especially the excitement about the expansion of the Faculty of Nursing and the resources.

Dr. Murray spoke in support of the initiatives and put forward the following motion:

MOTION (C. Murray/ M. LeClair) that Senate endorse the following:

- **The expansion of the Faculty of Nursing;**
- **The expansion of the UPEI Health and Wellness Centre;**
- **The establishment of the Faculty of Medicine in collaboration with Memorial University of Newfoundland; and**
- **The collaboration of the Atlantic Veterinary College, the Doctor of Psychology Program, the Paramedicine Program, the Faculty of Science and the Health Centered Research Clinic.**

Senator Briathwaite indicated while she is supportive, she requires more information about the program.

The President indicated that there are many steps that involve the Senate and the Board of Governors that will be taken once Government support is confirmed and he will communicate regularly with both the Senate and the Board of Governors with progress on this initiative.

Senator Trivett declared that his wife is a doctor. He expressed concern that the new program was being brought to Senate with no documentation, nor information to allow Senators to make an informed decision, effectively asking Senators to agree to a blank cheque for a new program. Senator Trivett asked if the Medical Society and Health PEI were consulted.

The President outlined the steps that would occur before a program could be implemented and assured the assembly that Senate would have multiple opportunities to review details. He stated that in the absence of working with MUN, the program would not be realized for at least 5-10 years. He explained that details of any program are not given to Senators before the discussion with the Government of PEI. The President also indicated that in the case of the Faculty of Sustainable Design Engineering, the Government made the announcement before the program was presented to the Senate and Board of Governors.

The President was clear that new funding for these initiatives is being sought from the Government and it will not take from existing funds, but rather, will support other programs that will be involved in these initiatives.

Senate Meeting Minutes –September 10, 2021

Senator Etkin commended the President on the fact that this topic came to Senate in an early stage before Government approval and made a comment that other programs have come to Senate after Government approval.

Senator Gottschall-Pass reiterated that this initiative came to the Senate very early before any Government approval was materialized. The expansion for the Faculty of Nursing is great news for the University and the UPEI Health and Wellness Clinic also, as it will support UPEI students, faculty and staff and their dependents. The Medicine program will come to Senate for curriculum, academic standards and it will require Senate approval before going to Atlantic Advisory Committee on Health Human Resources and Maritime Provinces Higher Education Commission and then will come again to the Senate after we receive their feedback. For any calendar entries, it will also come back to the Senate. So there is a lot of work to do.

Senator Cote asked the purpose of the motion. He echoed the other Senators' comments and would prefer a straw vote.

The President indicated that we have a motion on the floor.

Senator Doiron expressed his strong support. The President thanked Senator Doiron for his comment.

After discussion, the question was called and the motion was carried with all in favour, one abstention (Trivett).

MEETING MOVED TO IN CAMERA

4. Students Applying to Graduate Before Convocation

The following motions were brought forward by K. Gottschall-Pass and individually seconded by Senators; the 2021 Summer Semester Certificates and Degrees were approved as identified:

OMNIBUS MOTION (K. Gottschall-Pass/N. Kujundzic) that Senate approve the credentials for the 43 candidates listed as having completed the requirements for the following degrees and/or certificates with the Faculty of Arts. UNANIMOUSLY CARRIED.

FACULTY OF ARTS

Bachelor of Applied Arts in Journalism	2
Bachelor of Arts	24
Bachelor of Arts - Cooperative Education	1
Bachelor of Arts - Honours	4
Bachelor of Integrated Studies	3
Bachelor of Music	1
Master of Arts	8

TOTAL - Faculty of Arts**43**

OMNIBUS MOTION (K. Gottschall-Pass/T. Mady) that Senate approve the credentials for the 59 candidates listed as having completed the requirements for the following degrees and/or certificates with the Faculty of Business. **UNANIMOUSLY CARRIED.**

FACULTY OF BUSINESS

Certificate in Accounting	3
Certificate in Business	4
Certificate in Public Administration	2
Bachelor of Business Administration	29
Bachelor of Business Administration - Co-operative Education	2
Bachelor of Business in Tourism and Hospitality	3
Bachelor of Business Studies	1
Master of Business Administration	15
TOTAL - Faculty of Business	59

OMNIBUS MOTION (K. Gottschall-Pass/T. Miller) that Senate approve the credentials for the 43 candidates listed as having completed the requirements for the following degrees and/or certificates with the Faculty of Education. **UNANIMOUSLY CARRIED.**

FACULTY OF EDUCATION

Baccalaureate En Education - Francais Langue Seconde	3
Bachelor of Education	6
Master of Education	34
TOTAL - Faculty of Education	43

OMNIBUS MOTION (K. Gottschall-Pass/W. Peters) that Senate approve the credentials for the 2 candidates listed as having completed the requirements for the following degrees and/or certificates with the Faculty of Sustainable Design Engineering. **UNANIMOUSLY CARRIED.**

FACULTY OF ENGINEERING

Bachelor of Science in Sustainable Design Engineering	1
Master of Science in Sustainable Design Engineering	1
TOTAL - Faculty of Engineering	2

OMNIBUS MOTION (K. Gottschall-Pass/R. Bissesseur) that Senate approve the credentials for the 2 candidates listed as having completed the requirements for the following degrees and/or certificates with the Faculty of Graduate Studies. **UNANIMOUSLY CARRIED.**

FACULTY OF GRADUATE STUDIES AND RESEARCH

Master of Global Affairs	2
TOTAL - Faculty of Graduate Studies and Research	2

OMNIBUS MOTION (K. Gottschall-Pass/N. Etkin) that Senate approve the credentials for the 30 candidates listed as having completed the requirements for the following degrees and/or certificates with the Faculty of Faculty of Science. UNANIMOUSLY CARRIED.

FACULTY OF SCIENCE

Bachelor of Child and Family Studies	1
Bachelor of Environmental Studies	2
Bachelor of Science	18
Bachelor of Science - Honours	1
Bachelor of Science - Cooperative Education	2
Bachelor of Science - Honours - Cooperative Education	2
Bachelor of Science in Paramedicine	1
Bachelor of Wildlife Conversion	1
Master of Science	1
Doctor of Philosophy - Faculty of Science	1
TOTAL - Faculty of Science	30

OMNIBUS MOTION (K. Gottschall-Pass/G. Keefe) that Senate approve the credentials for the 8 candidates listed as having completed the requirements for the following degrees and/or certificates with the Faculty of Veterinary Medicine. UNANIMOUSLY CARRIED.

FACULTY OF VETERINARY MEDICINE

Master of Science - Faculty of Veterinary Medicine	3
Master of Veterinary Science	1
Doctor of Philosophy - Faculty of Veterinary Medicine	4
TOTAL - Faculty of Veterinary Medicine	8

ENABLING MOTION (K. Gottschall-Pass/L. Doiron) to empower the President, relevant Dean and Registrar, acting together in full agreement, to approve any degrees, diplomas or certificates that may surface as unexpected cases. UNANIMOUSLY APPROVED.

MEETING RETURNED TO OPEN SESSION

5. **Senate Reports**
 - a. **Academic Planning and Curriculum Committee**
 - i. **First Curriculum Report**

Faculty of Veterinary Medicine

**OMNIBUS MOTION (K. Gottschall-Pass/ G. Keefe) that motions 1-3 be approved as noted below:
UNANIMOUSLY CARRIED.**

- 1) **To approve the proposal for a new third year elective course entitled VBS 3125 Small Animal Clinical Toxicology be approved as proposed.**
(See details on the Curriculum Report Attached – Pages 3-5)
- 2) **To approve the proposal for a new third year elective course entitled VHM 3275 Topics in Evaluation of Lameness be approved as proposed.**
(See details on the Curriculum Report Attached – Pages 6-8)
- 3) **To approve the course description and the co-requisite requirements for VHM 3510, Techniques in the Evaluation of Equine Musculoskeletal Disease be approved as proposed.**
(See details on the Curriculum Report Attached – Pages 9-10)

Faculty of Education

**OMNIBUS MOTION (K. Gottschall-Pass/ T. Miller) that motions 4-6 be approved as noted below:
UNANIMOUSLY CARRIED.**

- 4) **To approve the new prerequisites for ED 7020 Directed Studies in Educational Research Methodology and Methods as proposed.**
(See details on the Curriculum Report Attached – Page 11)
- 5) **To approve the change in course title, course description & prerequisites for ED 7050 Comprehensive Portfolio approved as proposed.**
(See details on the Curriculum Report Attached – Pages 12-13)
- 6) **To approve the new prerequisites for ED 7060 PhD Dissertation as proposed.**
(See details on the Curriculum Report Attached – Page 14)

Faculty of Science

**MOTION (K. Gottschall-Pass/ N. Etkin) that motion 7 be approved as noted below:
UNANIMOUSLY CARRIED.**

- 7) **To approve a new course BIO 3900 Work Integrated Learning in Biological Sciences as proposed.**

Senate Meeting Minutes –September 10, 2021

(See details on the Curriculum Report Attached – Pages 16-19)

**MOTION (K. Gottschall-Pass/ N. Etkin) that motions 8-15 be approved as noted below:
UNANIMOUSLY CARRIED.**

- 8) To approve a new course entitled BIOT 1020 Field Studies in Biotechnology on PEI be approved as proposed**
(See details on the Curriculum Report Attached – Pages 25-27)
- 9) To approve a new course entitled BIOT 2020 Case Studies in Biotechnology be approved as proposed.**
(See details on the Curriculum Report Attached – Pages 25-27)
- 10) To approve a new course entitled SCIE 3010 Innovation and Entrepreneurship in Science be approved as proposed**
(See details on the Curriculum Report Attached – Page 28)
- 11) To approve a new course entitled BIOT 4610 Special Topics in Biotechnology be approved as proposed.**
(See details on the Curriculum Report Attached – Pages 32-35)
- 12) To approve a new course entitled BIOT 4820 Experiential Learning Project in Biotechnology be approved as proposed..**
(See details on the Curriculum Report Attached – Pages 36-38)
- 13) To approve a new course entitled BIOT 4830 Advanced Biotechnology Laboratory be approved as proposed.**
(See details on the Curriculum Report Attached – Pages 39-41)
- 14) To approve the calendar change to add the Minor in Biotechnology be approved as proposed.**
(See details on the Curriculum Report Attached – Pages 42-51)
- 15) To approve the calendar change to Science Seminars be approved as proposed.**
(See details on the Curriculum Report Attached – Page 15)

Registrar's Office

**MOTION (K. Gottschall-Pass/ C. Murray) that motion 16 be approved as noted below:
UNANIMOUSLY CARRIED.**

- 16) To approve a change to the passing grade in EAP courses (non-credit) from 60% to 70% as proposed.**

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

OMNIBUS MOTION (K. Gottschall-Pass/ T. Miller) that motions 17-18 be approved as noted below: UNANIMOUSLY CARRIED.

- 17) To approve the changes in the 2021-22 Calendar dates approved as proposed .**

(See details on the Curriculum Report Attached – Pages 55-57)

- 18) To approve the changes in the 2021-2022 Academic Calendar Dates for Veterinary Medicine Program approved as proposed.**

(See details on the Curriculum Report Attached – Pages 58-59)

b. Senate Steering and Nominating Committee

C. Murray indicated that two Senate Committees are being brought forward.

i. Senate Academic and Student Discipline Appeals Committee

There being one vacancy on the Committee to be filled by a Senator resulted in M. Buote's being nominated.

MOTION (C. Murray/L. Doiron) that M. Buote fill the vacancy on the Senate Academic and Student Appeals Committee. UNANIMOUSLY CARRIED.

ii. Senate Research Advisory Committee

MOTION (C. Murray/L. Doiron) that the Senate Research Advisory Committee be approved as presented. UNANIMOUSLY CARRIED.

6. Other Business

i. Campus Update

a. Fall 2021

K. Gottschall-Pass reiterated that directives from the Chief Public Health Office always are followed. J. Podger proved an overview of the numbers pertaining to completed attestation forms and vaccination records. D. Sutton noted that the first vaccination clinic was held last week and feedback is positive.

It was noted that, on behalf of Senate, appreciation will be extended to the staff of the UPEI Health and Wellness Centre for their extra efforts in assisting with COVID-19

Senate Meeting Minutes –September 10, 2021

vaccinations, testing. Appreciation was also extended to D. Sutton and her staff for their continued support for our students during these unprecedented times.

Concern regarding slow internet service was raised and the President will follow up with the Chief Information Officer regarding this.

Discussion regarding space for students who need to navigate the switching between delivery modes of their classes was discussed. The President indicated that he met with all Vice-Presidents and Deans previously about this. The University Librarian noted that four research rooms have been converted into class participation areas. The Registrar will be working with the Student Union regarding this important issue. The Vice-President Academic and Research will ensure coordination between faculty, deans and chairs. The Registrar will ensure communication to students is clear about available spaces.

The Vice-President Academic and Research indicated that planning is underway for Winter 2022 and she will bring an update to the next Senate meeting. If the pandemic situation should change in the interim, an emergency meeting will be called for Senate.

Deans will communicate to all faculty members that if there are students not wearing masks, the faculty member should notify the Dean.

**MOTION (D. Sutton/L. Doiron) to extend the meeting of Senate by 15 minutes.
UNANIMOUSLY CARRIED.**

MEETING MOVED TO IN CAMERA

MEETING RETURNED TO OPEN SESSION

7. Adjournment

Motion (B. Waterman/B. Linkletter) that the meeting be adjourned at 5:15 p.m. UNANIMOUSLY CARRIED.

Respectfully submitted,
Donna Sutton
Secretary of Senate



Motions		Page
	FACULTY OF VETERINARY MEDICINE	
	Summary of Changes	2
	Biomedical Sciences	
1	VBS 3125 New Course Proposal	3-5
	Health Management	
2	VHM 3275 New Course Proposal	6-8
3	VHM 3510 Course Description and requisite change	9
	FACULTY OF EDUCATION	
	Summary of Changes	10
4	ED 7020 Pre-requisite change	11
5	ED 7050 Name Change, Course Description change & pre-requisite change	12-13
6	ED 7060 Pre-requisite change	14
	FACULTY OF SCIENCE	
	Summary of Changes	15
	Department of Biology	
7	Bio 3900 New Course Proposal	16-19
	Department of Chemistry	
8-9	BIOT 1020, 2020 New Course Proposals	20-27
10	SCIE 3010 New Course Proposal	28-31
11-13	BIOT 4610, 4820, 4830 New Course Proposals	32-41
14	Biotechnology Minor New Calendar Entry	42-51
15	Science Seminars Calendar Entry Change	52
	REGISTRAR'S OFFICE	
	Summary of Changes	53
16	EAP Courses Grade Mode Change	54
	UPEI Calendar Dates	
17	2021-2022 Calendar Dates Revised dates	55-57
	Doctor of Veterinary Medicine Calendar Dates	
18	2021-2022 Calendar Dates Revised dates	58-59



Academic Planning and Curriculum Committee
August 31, 2021

SUMMARY OF FACULTY OF VETERINARY MEDICINE MOTION #'S 1-3

Faculty of Veterinary Medicine
September, 2021

Biomedical Sciences:
New Course Proposal - VBS 3125

Health Management:
New Course Proposal - VHM 3275
Course Description and Co-requisite Change – VHM 3510

NEW COURSE PROPOSAL

Motion #1

Faculty/School: **Veterinary Medicine**

Department/Program(s): **Department of Biomedical Sciences**

MOTION: That the proposal for a new third year elective course entitled VBS 3125 Small Animal Clinical Toxicology be approved as proposed.

Course Number and Title	VBS 3125 Small Animal Clinical Toxicology
Description	This elective modular course builds on principles taught in the core curriculum. A review of fundamental clinical toxicology principles and procedures will be presented before students work through a variety of clinical case scenarios involving toxicities commonly encountered in general practice. While the course is principally focussed on small animals, some cases and topics pertinent to large animals will also be discussed.
Cross-Listing	NA
Prerequisite/Co-Requisite	Third year standing in the DVM program.
Credit(s)	1
Notation	Five week module with 3 hours of lecture per week.

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 20 to 60 students

Is there an Enrolment Cap: No

Rationale for New Course: Implementation of an expanded core/elective curriculum for year 3 of the DVM program. This course will allow the students to expand their knowledge and experience of veterinary clinical toxicology with incorporation of their gained knowledge of clinical veterinary medicine.

Effective Term: WINTER 2022

Implications for Other Programs: None anticipated

Impact on Students Currently Enrolled: None anticipated. This course will be offered to the Class of 2023 in Winter 2022.

Resources Required: No additional resources

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

<u>Authorization</u>	<u>Date:</u>
Departmental Approval: Dr. Jonathan Spears, Chair	March 12, 2021
Faculty/School Approval: AVC Curriculum Committee	March 25, 2021
Faculty Dean's Approval: Dr. Greg Keefe, Dean	March 30, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

NEW COURSE PROPOSAL**Motion #1**

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL**VBS 3125 Small Animal Clinical Toxicology**

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

Existing resources as of April 2021:

- Collections - Holdings, Subscriptions, Other
 - Books – a catalogue search for the subjects of veterinary toxicology or poisoning in animals, veterinary drugs, or poisoning veterinary retrieves 156 online and print titles published since 2000.
 - Journals - collection includes 130 out of the 141 titles listed in the 2019 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The library has access to 283 general medical and veterinary medicine, with 177 being peer reviewed.
 - Databases
 - CAB Abstracts (via CAB Direct & EBSCOhost) main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
 - VetMed Resource
 - PubMed
 - Plumb's Veterinary Drugs
 - Earth, Atmospheric & Aquatic Science Database (includes Aquatic Sciences & Fisheries Abstracts, Oceanic Abstracts, & Meteorological & Geostrophysical Abstracts)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online includes a large number of related veterinary journals
 - Elsevier ScienceDirect includes a large number of related veterinary journals
 - Web of Science (backfile for 1979 - 2009 only)
 - JoVE: Journal of Visualized Experiments
 - Scopus
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - AVC Liaison Librarian Kim Mears provides support to both students and faculty as needed. She monitors publication lists for new titles in the topic area and purchases appropriate titles as existing budgetary resources permit.
-

New resources needed to support this proposal:

- Capital Requirements (other than new course-specific) - None
- Collections:
 - Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - N/A
- Other One-Time or Ongoing Library expenses (e.g. software licenses) - N/A



NEW COURSE PROPOSAL

Motion #1

Summary of additional budget allocation required:

1. 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? Yes

Date Received by Liaison/Collections Librarian	March 23, 2021
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	April 30, 2021

Form Version: September 2020

NEW COURSE PROPOSAL

Motion #2

Faculty/School: **Veterinary Medicine**

Department/Program(s): **Department of Health Management**

MOTION: That the proposal for a new third year elective course entitled VHM 3275 Topics in Evaluation of Lameness be approved as proposed.

Course Number and Title	VHM 3275 Topics in Evaluation of Lameness
Description	This elective modular course exposes the student to advanced observation and diagnostic skills required for the evaluation of musculoskeletal disease in animals. The focus will be the horse but application across species is recognized. Case based learning is emphasized.
Cross-Listing	N/A
Prerequisite/Co-Requisite	Third year standing in the DVM program.
Credit(s)	0.5
Notation	Five week module with 3 hours of tutorial per week.

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 20 to 60 students

Is there an Enrolment Cap: No

Rationale for New Course: This new 0.5 credit elective module course will provide all 3rd year veterinary students with ample opportunity for the learning and application of observational skills and techniques required in the lameness evaluation of animals. The focus will be the horse, but skills learned are applicable across species. The case-based course is self-directed with tutorial guidance and is open to all 3rd year DVM students, thereby providing opportunity to more students to build these skills. By offering this new course, greater emphasis can be placed on application of clinical techniques in the limited enrollment VHM 3510 Techniques in Evaluation of Equine Musculoskeletal Disease.

Effective Term: WINTER 2022

Implications for Other Programs: None anticipated

Impact on Students Currently Enrolled: None anticipated. The course will be offered to the Class of 2023 in Winter 2022.

Resources Required: No additional resources

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

<u>Authorization</u>	<u>Date:</u>
Departmental Approval: Dr. Laurie McDuffee, Chair	April 30, 2021
Faculty/School Approval: AVC Curriculum Committee	May 14, 2021
Faculty Dean's Approval: Dr. Greg Keefe, Dean	May 25, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

NEW COURSE PROPOSAL**Motion #2****LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL****VHM 3275, Topics in Evaluation of Lameness**

Existing resources as of May 2021:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subjects Lameness Animal, lameness in cattle, lameness in horses, lameness in dogs, Musculoskeletal Diseases- veterinary, or orthopedic procedures- veterinary retrieves 43 online and print titles published since 2000.
 - Journals - collection includes 125 out of the 141 titles listed in the 2018 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The library has access to 281 general medical and veterinary medicine.
 - Databases
 - CAB Abstracts (via CAB Direct & EBSCOhost) main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
 - VetMed Resource
 - PubMed
 - Plumb's Veterinary Drugs
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online includes a large number of related veterinary journals
 - Elsevier ScienceDirect includes a large number of related veterinary journals
 - Agricola
 - Web of Science (backfile for 1979 - 2009 only)
 - JoVE: Journal of Visualized Experiments
 - Earth, Atmospheric & Aquatic Science Database (includes Aquatic Sciences & Fisheries Abstracts, Oceanic Abstracts, & Meteorological & Geostrophysical Abstracts)
 - The Library subscribes to interdisciplinary ebook packages with Ebsco, ProQuest, Wiley, Oxford, Cambridge, Elsevier ScienceDirect, and Springer.
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - AVC Liaison Librarian Kim Mears provides support to both students and faculty as needed. She monitors publication lists for new titles in the topic area and purchases appropriate titles as existing budgetary resources permit.

New resources needed to support this proposal:

- Capital Requirements (other than new course-specific) - None
- Collections:
 - Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - N/A
- Other One-Time or Ongoing Library expenses (e.g. software licenses) - N/A



NEW COURSE PROPOSAL

Motion #2

Summary of additional budget allocation required:

1. 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? Yes

Date Received by Liaison/Collections Librarian	April 30, 2021
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	May 17, 2021

Form Version: September 2020

CALENDAR & CURRICULUM CHANGE

Motion #3

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

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

Department/Program(s)/Academic Regulations: **Department of Health Management**

MOTION: That the course description and the co-requisite requirements for VHM 3510, Techniques in the Evaluation of Equine Musculoskeletal Disease be approved as proposed.

<u>Reproduction of Current Calendar Entry</u>	<u>Proposed revision with changes underlined and deletions indicated clearly</u>
<p>VHM 3510 Techniques in the Evaluation of Equine Musculoskeletal Disease This elective laboratory course provides students with the opportunity to work with horses with a variety of musculoskeletal disorders. Physical diagnosis, diagnostic anesthesia, and imaging studies are assessed in the context of patient history and client concerns. Co-Requisite: VHM 3470 Five-week module with three hours of laboratory per week. Enrolment is limited for third year students.</p>	<p>VHM 3510 Techniques in the Evaluation of Equine Musculoskeletal Disease This elective laboratory course provides students with the opportunity to <u>apply techniques developed in VHM 3275</u>. work with horses with a variety of musculoskeletal disorders. Physical diagnosis, diagnostic anesthesia, and imaging studies are assessed in the context of patient history and client concerns. Co-Requisite: VHM 3470 <u>and VHM 3275</u> Five-week module with three hours of laboratory per week Enrolment is limited for third year students</p>

Rationale for Change: With the addition of a new elective modular course focused on basic equine lameness observation and diagnostic skills, this course will be a progression to allow focus on the application of techniques to horses in the clinical setting. In order to get the most out of this course, students will require the new course VHM 3275 as an additional co-requisite in addition to VHM 3470. The course description and co-requisite requirement has changed as result.

Effective Term: WINTER 2022

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Authorization	Date:
Departmental Approval: Dr. Laurie McDuffee, Chair - HM	April 30, 2021
Faculty/School Approval: AVC Curriculum Committee	May 14, 2021
Faculty Dean's Approval: Dr. Greg Keefe, Dean	May 25, 2021
Grad. Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

SUMMARY OF FACULTY OF EDUCATION MOTION #'S 4-6

Calendar & Curriculum Change	That ED 7000 & ED 7010 be prerequisites for ED 7020
Calendar & Curriculum Change	To update the name change, course description & prerequisites for ED 7050 as submitted.
Calendar & Curriculum Change	That ED 7000, ED 7010, ED 7020, ED 7034, ED 7040, & ED 7050 be prerequisites for ED 7060

CALENDAR & CURRICULUM CHANGE

Motion #4

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

Faculty/School/Department: **Education**

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

MOTION: To approve the new prerequisites for ED 7020 Directed Studies in Educational Research Methodology and Methods as proposed.

<u>Reproduction of Current Calendar Entry</u>	<u>Proposed revision with changes underlined and deletions indicated clearly</u>
ED 7020 DIRECTED STUDIES IN EDUCATIONAL RESEARCH METHODOLOGY AND METHODS Working with their dissertation supervisor(s), students develop in-depth knowledge and practical expertise related to specific research methods appropriate to their chosen dissertations.	ED 7020 DIRECTED STUDIES IN EDUCATIONAL RESEARCH METHODOLOGY AND METHODS Working with their dissertation supervisor(s), students develop in-depth knowledge and practical expertise related to specific research methods appropriate to their chosen dissertations. <u>PREREQUISITE: ED 7000 and ED 7010</u>

Rationale for Change: The purpose of the ED 7020 directed study is to engage students with their supervisors to develop in-depth knowledge and practical expertise related to specific research methods appropriate to their chosen dissertations. Thus, students must first have competency and passed ED 7000 (Advanced Quantitative Methodology and Methods in Education Research) and ED 7010 (Advanced Qualitative Methodology and Methods in Education Research).

Effective Term: WINTER 2022

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: N/A

<u>Authorization</u>	<u>Date:</u>
Departmental Approval: Education Grad Studies Committee	April 15, 2021
Faculty/School Approval: Faculty of Education Council	May 7, 2021
Faculty Dean's Approval: Dr. Ron MacDonald, Dean of Education	May 7, 2021
Grad. Studies Dean's Approval: Dr. Rabin Bissessur	July 6, 2021
Registrar's Office Approval: Darcy McCardle	August 24, 2021



CALENDAR & CURRICULUM CHANGE

Motion #5

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

Faculty/School/Department: **Education**

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

MOTION: To have the change in course title, course description & prerequisites for ED 7050 Comprehensive Portfolio approved as proposed.

<u>Reproduction of Current Calendar Entry</u>	<u>Proposed revision with changes underlined and deletions indicated clearly</u>
<p>ED 7050 COMPREHENSIVE PORTFOLIO</p> <p>The Comprehensive Portfolio is an independent work, separate from the dissertation proposal, where the student provides evidence of his or her knowledge, skills, and readiness to embark on a dissertation journey. Students collect pieces of their own work completed throughout the program, in a variety of formats, which demonstrate 1) that they have read broadly in the field of educational studies; 2) that they have in-depth knowledge of the literature in one area of research interest, which could be related or unrelated to the intended dissertation topic; and 3) that they have a critical understanding of methodologies and attendant methods used in educational studies, including quantitative and qualitative paradigms. In an introduction to the portfolio, students make a case for the documents they include in the portfolio by justifying how the documents demonstrate that the goals of the comprehensive requirement have been reached.</p>	<p>ED 7050 COMPREHENSIVE PORTFOLIO <u>EXAMINATION (ePortfolio and Oral Defence)</u></p> <p>The Comprehensive Portfolio <u>ePortfolio</u> is an independent work, separate from the dissertation proposal, where the student provides evidence of his or her <u>their</u> knowledge, skills, and readiness to embark on a dissertation journey. Students collect pieces of their own work completed throughout the program, in a variety of formats, which demonstrate 1) that they have read broadly in the field of educational studies; 2) that they have in-depth knowledge of the literature in one area of research interest, which could be related or unrelated to the intended dissertation topic; and 3) that they have a critical understanding of methodologies and attendant methods used in educational studies, including quantitative and qualitative paradigms. In an introduction to the eportfolio, students make a case for the documents they include in the eportfolio by justifying how the documents demonstrate that the goals of the comprehensive requirement have been reached. <u>Students' competencies in the course are assessed through a comprehensive examination, which includes an assessment of the eportfolio and an oral defence of their competencies in four areas of competency (i.e., Knowledge of Theory, Research Knowledge, Professional Competencies, and Instructional Competencies).</u></p> <p><u>PREREQUISITE: ED 7020, 7034, 7040</u></p>

Rationale for Change: The course name "Comprehensive Portfolio" is confusing to students with respect to the expectations in the course. For example, the word 'Portfolio' is misleading students to believe any kind of portfolio is required and that the course is simply a collection of artifacts in the form of a portfolio, when in fact, an ePortfolio and an oral defence are required. The use of the word 'examination' will heighten the perception of the endeavor to be undertaken in the course. Thus, the proposed changes to the course name and course description better describe the expectations in the course and what will be assessed. Further, the change clearly articulates that an ePortfolio and oral defence are expected course

CALENDAR & CURRICULUM CHANGE**Motion #5**

components. Prior to commencing ED 7050 Portfolio, students must complete ED 7000, ED 7010, ED 7020, ED 7034, and ED 7040. These courses prepare students to be successful in ED 7050.

Effective Term: WINTER 2022

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: N/A

<i>Authorization</i>	<i>Date:</i>
Departmental Approval: Education Grad Studies Committee	April 15, 2021
Faculty/School Approval: Faculty of Education Council	May 7, 2021
Faculty Dean's Approval: Dr. Ron MacDonald, Dean of Education	May 7, 2021
Grad. Studies Dean's Approval: Dr. Rabin Bissessur	July 6, 2021
Registrar's Office Approval: Darcy McCardle	August 24, 2021

Form Version: September 2020



CALENDAR & CURRICULUM CHANGE

Motion #6

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

Faculty/School/Department: **Education**

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

MOTION: To approve the new prerequisites for ED 7060 PhD Dissertation as proposed.

<u>Reproduction of Current Calendar Entry</u>	<u>Proposed revision with changes underlined and deletions indicated clearly</u>
ED 7060 PHD DISSERTATION The PhD dissertation provides evidence of the candidate's ability to carry out independent and original research, develop the necessary theoretical and methodological framework and analyzes, and present the findings in a scholarly manner.	ED 7060 PHD DISSERTATION The PhD dissertation provides evidence of the candidate's ability to carry out independent and original research, develop the necessary theoretical and methodological framework and analyzes, and present the findings in a scholarly manner. <u>PREREQUISITE: ED 7050</u>

Rationale for Change: Prior to commencing students' PhD dissertation work they must have demonstrated competency in research methods (ED 7000, ED7010, ED 7020), Theory (ED 7034), and have mastered the process of critiquing and synthesizing literature, scholarly presentations, and facilitating scholarly dialogue (ED 7040).

Effective Term: WINTER 2022

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: N/A

Authorization

Date:

Departmental Approval: Education Grad Studies Committee	April 15, 2021
Faculty/School Approval: Faculty of Education Council	May 7, 2021
Faculty Dean's Approval: Dr. Ron MacDonald, Dean of Education	May 7, 2021
Grad. Studies Dean's Approval: Dr. Rabin Bissessur	July 6, 2021
Registrar's Office Approval: Darcy McCardle	August 24, 2021

SUMMARY OF FACULTY OF SCIENCE MOTION #'S 7-15

1st Curriculum Report Submission**Summary****Department of Biology**

- New Course Proposal for BIO 3900 Work Integrated Learning

Department of Chemistry

- New Course Proposals for BIOT 1020: Field Studies in Biotechnology on PEI
- New Course Proposals for BIOT 2020: Case Studies in Biotechnology
- New Course Proposals for SCIE 3010: Innovation And Entrepreneurship In Science
- New Course Proposals for BIOT 4820: Experiential Learning Project In Biotechnology
- New Course Proposals for BIOT 4830: Advanced Biotechnology Laboratory
- New Course Proposals for BIOT 4610: Special Topics In Biotechnology
- Calendar Entry Change for Biotechnology Minor
- Calendar Entry Change for Science Seminars



NEW COURSE PROPOSAL

Motion #7

Faculty/School: **Science**

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

MOTION: To approve a new course BIO 3900 Work Integrated Learning in Biological Sciences as proposed.

Course Number and Title	Biology 3900 Work Integrated Learning in the Biological Sciences
Description	<p>This course provides students with a volunteer work experience (work-integrated learning) in a biological discipline of their choice. Students will first complete a set of goal-oriented learning modules ('UPEI Digital Badges') through the Experiential Education Department, followed by a minimum of 20 hours of volunteer experience or job shadowing with an organization approved by the Biology Department. A final requirement will be the submission of a substantive e-portfolio.</p> <p>*Prior to being registered in the course, students must submit an application to the Department.</p>
Cross-Listing	N/A
Prerequisite/Co-Requisite	At least 6 Biology Courses successfully completed AND permission of the instructor
Credit(s)	3
Notation	Students will choose (at their discretion) and complete a minimum of 12 workshops (18 hours) in the digital badge program; the job experience placement will consist of a minimum of 20 hours; pre and post-placement meetings with coordinators will also take place as required.

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 15-20

Is there an Enrolment Cap: Yes 20

If there is an enrolment limit, please explain. Enrolment limit will be based on availability of placements.

Rationale for New Course: This course is a collaborative venture between the Departments of Biology and Experiential Educational at UPEI. A Biology Department Coordinator will be appointed to work in collaboration with the Experiential Education Department to manage placements and outreach to potential organizations interested in participating in this program. This initiative is in response to a recent departmental review, recommending more skill development and work-integrated learning experiences for our students in order for them to gain a better appreciation of employment opportunities in the biological sciences.

Effective Term: WINTER 2022

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: none

Resources Required: Teaching credit (1.5 semester hours) for Departmental Course Coordinator who will work with students and the Experiential Education Department to coordinate placements, liaise with the mentor at the host organization, and evaluate the e-portfolios

NEW COURSE PROPOSAL

Motion #7

In offering this course will UPEI require facilities or staff at other institutions: Yes

If yes, please explain. Expertise of staff in the Experiential Education unit, responsible for delivery and management of digital badge program. Mentors at hosting organization to evaluate work

Authorization**Date:**

Departmental Approval: Kevin Teather	December 14, 2020
Faculty/School Approval: Science Council	February 3, 2021
Faculty Dean's Approval: Nola Etkin	February 3, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

Form Version: September 2020

NEW COURSE PROPOSAL**Motion #7**

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL**Bio 3900 Work Integrated Learning in Biological Sciences****No additional resources required.**Library Resource Requirements *(to be completed by the liaison and/or collections librarian)*

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - Books
 - General Biology Catalogue Holdings
 - A subject search of 'biology' in our catalogue retrieves 6767 books, 5376 of which are available online
 - A keyword search of 'natural sciences' shows 14651 books available, with 13821 being available online
 - A keyword search of 'biology' shows 26189 books available with 21100 available online
 - Course Specific Catalogue holdings
 - A keyword search of 'biology career' returns 247 books, with 232 of those available for online access
 - The subject 'communication in science' shows 432 books and 382 are available online
 - A subject search of 'technical writing' yields 280 books and 221 are accessible online
 - A keyword search of 'career portfolio' has 129 results and 123 of those are available online
 - Journals
 - The Robertson Library has access to 2261 biology journals and 221 related to biotechnology.
 - The Library has access to 47 of the top 50 Biochemistry, Genetics, and Molecular Biology journals listed in Scimago's Journal Ranking
 - Databases
 - Biology Specific Databases
 - CAB Abstracts
 - GreenFile
 - Federal Science Library
 - Earth, Atmospheric & Aquatic Science Database
 - ArXiv
 - JSTOR Arts & Sciences I - VIII, Complement Collections and Life Sciences
 - Other Relevant Databases
 - Academic Search Complete

NEW COURSE PROPOSAL

Motion #7

- PubMed
- CINAHL
- MedLine
- ScienceDirect
- Springer LINK

Subscription Dependencies (in interdisciplinary packages)

- The Library subscribes to interdisciplinary journal packages with Elsevier (ScienceDirect), Wiley, Springer, Oxford, Sage, and Project Muse.
- The Library subscribes to interdisciplinary ebook packages with Ebsco, Proquest, JStor, Wiley, Cambridge, ScienceDirect, and Project Muse.

Physical Space in Library (other than holdings, explain)

Library Administrative/Research Support

- Keri McCaffrey - Liaison Librarian for Biology
 - Available for class and one-on-one instruction and 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 consecutive years
- Annual: 0
 - Per-year percentage increase in annual:

Does the budget allocation for library resources in this proposal meet the requirement? Our existing holdings can support this course, so no new budget allocation is required. Many of the resources listed are dependent on subscriptions and will need to be maintained.

Date Received by Liaison/Collections Librarian	December 15, 2020
Name of Librarian to be Contacted for Questions	Keri McCaffrey
Approved by University Librarian or Designate - Name	Donald Moses
Date Approved by UL or Designate	January 11, 2021

NEW COURSE PROPOSAL

Motion #8

Faculty/School: **Science**

Department/Program(s): **Chemistry/Biotechnology Minor**

MOTION: That a new course entitled BIOT 1020 Field Studies in Biotechnology on PEI be approved as proposed.

Course Number and Title	BIOT 1020: Field Studies in Biotechnology on PEI
Description	This course employs Prince Edward Island's unique concentration of companies engaged in the research, development, and commercialization of biotechnologies as an "operating laboratory" for developing an awareness and understanding of the techniques and processes, challenges, and solutions involved in Biotechnology of the 21st century. Through a series of field trips, students will examine first-hand how bioscience industries on the Island employ common biotechnology processes and how they apply them to solve different problems. There will be required writing exercises associated with each field trip. Students taking this course will attain a foundational layer of transferrable skills via competency-building written exercises, comprehensive experiential learning of biotechnologies across different working environments, and engagement with a pool of industry leaders.
Cross-Listing	
Prerequisite/Co-Requisite	None
Credit(s)	3
Notation	3 lecture hours + 3 field trip hours per week.

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 30 **Is there an Enrolment Cap:** No

Rationale for New Course: This course comprises the first of the suite of courses developed for new skilling training in Biotechnology as part of the CASTL-UPEI partnership.

Effective Term: WINTER 2022

Implications for Other Programs: We anticipate that this course will be a useful elective for students in the Biotechnology articulated program.

Impact on Students Currently Enrolled: None.

Resources Required: Sessional instructor, transportation.

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

Authorization

Date:

Departmental Approval: Brian Wagner	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021

NEW COURSE PROPOSAL**Motion #8**

Faculty Dean's Approval: Nola Etkin	August 4, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

Form Version: September 2020

NEW COURSE PROPOSAL**Motion #8****LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL****BIOT 1020 Field Studies in Biotechnology on PEI**

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

Existing resources as of August 2021:

- Collections - Holdings, Subscriptions, Other
 - Books –
 - Catalogue searches for print and online titles published since 2010
 - subject search for biotechnology: 1132 results
 - keyword search for biotechnology & case study or case studies: 63 results
 - subject search for bioethics: 273 results
 - subject search for bioengineering: 581
 - subject search for biotechnologie: 21 results
 - keyword search for bioscience: 1132 results
 - Journals
 - A title search for biotechnology results in 337 journals (190 peer reviewed).
 - Subject categories:
 - Biology: 2262 journals (1,907 peer reviewed)
 - Biotechnology: 206 journals (162 peer reviewed)
 - Chemistry 1625 journals (1,344 peer reviewed)
 - Computer Science: 1095 journals (162 peer reviewed)
 - Engineering: 1797 journals (709 peer reviewed)
 - Databases
 - ACM Digital Library (Association for Computing Machinery)
 - Gale/Cengage's Computer Database
 - MADCAD Standards
 - ANSI Standards
 - Compendex
 - CRCNetBase Handbooks
 - ASME Digital Collection
 - IEEE IEL Online (Xplore)
 - AccessEngineering
 - GreenFile
 - SciFinder
 - Royal Society of Chemistry
 - ACS Web Editions (American Chemical Society)
- Subscription Dependencies (in interdisciplinary packages)
 - eBook packages
 - O'Reilly Higher Education ebooks (Safari)
 - Elsevier eBooks
 - Sage Knowledge Complete
 - Springer eBooks
 - Journal packages
 - Elsevier ScienceDirect
 - Springer LINK
 - SAGE Premier Collection

NEW COURSE PROPOSAL

Motion #8

- Wiley Online
- Databases (interdisciplinary)
 - Academic Search Complete
 - OneSearch (EBSCO EDS - Proxied)
 - PubMed
 - Scopus
 - SAGE Research Methods Video: Practical Research and Academic Skills
 - Sage Research Methods Foundations
 - Statista
- Media
 - Academic Videos Online (AVON, Alexander Street Press)
 - O'Reilly Higher Education
 - AccessEngineering
 - NFB Campus
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - Liaison Librarians provide reference and instruction support to both students and faculty as needed. They monitor publication lists for new titles in the subject area and purchase appropriate titles as existing budgetary resources permit.

New resources needed to support this proposal:

- Capital Requirements (*other than new course-specific*) - N/A
- Collections:
 - Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - none
- 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? The Library currently has the resources to support this course, but it is almost entirely supported by database and ebook subscriptions and so ongoing institutional annual budgetary support (including the need to account for annual cost increases) is required to maintain these resources.



Academic Planning and Curriculum Committee
August 31, 2021

NEW COURSE PROPOSAL

Motion #8

Date Received by Liaison/Collections Librarian	August 10, 2021
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	August 18, 2021

Form Version: September 2021

NEW COURSE PROPOSAL

Motion #9

Faculty/School: **Science**

Department/Program(s): **Chemistry/Biotechnology Minor**

MOTION: That a new course entitled BIOT 2020 Case Studies in Biotechnology be approved as proposed.

Course Number and Title	BIOT 2020: Case Studies in Biotechnology
Description	This course develops critical thinking around research problems in Biotechnology through a series of case studies. Students will examine and solve research problems in biotechnology. Material for the case studies will be drawn from biotechnology industries generically and from local industries, increasing in complexity as the semester progresses. Students will build competencies in Biotechnology methods and techniques, develop the ability to see alternative approaches, and develop problem solving and critical thinking skills.
Cross-Listing	
Prerequisite/Co-Requisite	BIOT 1020 – Must be taken either prior to or at the same time as this course
Credit(s)	3
Notation	3 lecture hours per week.

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 30

Is there an Enrolment Cap: No

Rationale for New Course: This course comprises the second of suite of courses developed for high-skilled training in Biotechnology as part of the CASTL-UPEI partnership. Students will attain transferrable skills via the competency-building case studies working with real-world data, and required defending of ideas, seeing alternative approaches, and critical thinking. The course may use data from a combination of national/global and local industries.

Effective Term: WINTER 2022

Implications for Other Programs: We anticipate that this course will be a useful elective for students in the Biotechnology articulated program.

Impact on Students Currently Enrolled: None.

Resources Required: Sessional instructor.

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

Authorization

Date:

Departmental Approval: Brian Wagner	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021
Faculty Dean's Approval: Nola Etkin	August 4, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

NEW COURSE PROPOSAL**Motion #9**

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL**BIOT 2020: Case Studies in Biotechnology**Library Resource Requirements *(to be completed by the liaison and/or collections librarian)*

Existing resources as of August 2021:

- Collections - Holdings, Subscriptions, Other
 - Books –
 - Catalogue searches for print and online titles published since 2010
 - subject search for biotechnology: 1132 results
 - keyword search for biotechnology & case study or case studies: 63 results
 - subject search for bioethics: 273 results
 - subject search for bioengineering: 581
 - subject search for biotechnologie: 21 results
 - keyword search for bioscience: 1132 results
 - Journals
 - A title search for biotechnology results in 337 journals (190 peer reviewed).
 - Subject categories:
 - Biology: 2262 journals (1,907 peer reviewed)
 - Biotechnology: 206 journals (162 peer reviewed)
 - Chemistry 1625 journals (1,344 peer reviewed)
 - Computer Science: 1095 journals (162 peer reviewed)
 - Engineering: 1797 journals (709 peer reviewed)
 - Databases
 - ACM Digital Library (Association for Computing Machinery)
 - Gale/Cengage's Computer Database
 - MADCAD Standards
 - ANSI Standards
 - Compendex
 - CRCNetBase Handbooks
 - ASME Digital Collection
 - IEEE IEL Online (Xplore)
 - AccessEngineering
 - GreenFile
 - SciFinder
 - Royal Society of Chemistry
 - ACS Web Editions (American Chemical Society)
- Subscription Dependencies (in interdisciplinary packages)
 - eBook packages
 - O'Reilly Higher Education ebooks (Safari)
 - Elsevier eBooks
 - Sage Knowledge Complete
 - Springer eBooks
 - Journal packages
 - Elsevier ScienceDirect
 - Springer LINK
 - SAGE Premier Collection

NEW COURSE PROPOSAL

Motion #9

- Wiley Online
- Databases (interdisciplinary)
 - Academic Search Complete
 - OneSearch (EBSCO EDS - Proxied)
 - PubMed
 - Scopus
 - SAGE Research Methods Video: Practical Research and Academic Skills
 - Sage Research Methods Foundations
 - Statista
- Media
 - Academic Videos Online (AVON, Alexander Street Press)
 - O'Reilly Higher Education
 - AccessEngineering
 - NFB Cmapus
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - Liaison Librarians provide reference and instruction support to both students and faculty as needed. They monitor publication lists for new titles in the subject area and purchase appropriate titles as existing budgetary resources permit.

New resources needed to support this proposal:

Capital Requirements (*other than new course-specific*) - N/A

Collections:

- Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - none
- 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? The Library currently has the resources to support this course, but it is almost entirely supported by database and ebook subscriptions and so ongoing institutional annual budgetary support (including the need to account for annual cost increases) is required to maintain these resources.

Date Received by Liaison/Collections Librarian	August 10, 2021
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	August 18, 2021

NEW COURSE PROPOSAL

Motion #10

Faculty/School: **Science**

Department/Program(s): **Science**

MOTION: That a new course entitled SCIE 3010 Innovation and Entrepreneurship in Science be approved as proposed.

Course Number and Title	SCIE 3010 Innovation and Entrepreneurship in Science
Description	This course provides an overview on how to start and sustain a science-oriented company, with an emphasis on entrepreneurship and innovation in biotechnology. Topics will include specific innovation cases, intellectual property and regulatory hurdles in science including biotechnology, business feasibility studies, financial planning, sources of capital, business structure, marketing, operational and human resource management. Students will be expected to identify and develop an idea which has the potential to be commercialized. The output of this research will be developed into a business idea to be aimed at potential investors, and participation in pitch competitions including the Panther Pitch will be encouraged.
Prerequisite/Co-Requisite	Students must have at least third-year standing OR permission of instructor
Credit(s)	3
Notation	Three lecture hours per week

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 30

Is there an Enrolment Cap: No

Rationale for New Course: Students from any science discipline will be inspired to embrace enterprise as an essential component of their development. The course will encourage students to make reasoned business decisions based on evidence available to them that may help them start their own businesses and/or increase their employability.

Effective Term: WINTER 2022

Implications for Other Programs: This course is complementary to Engineering 3430 and Business 3710, and is open to all science students who have attained at least third-year standing.

Impact on Students Currently Enrolled: None.

Resources Required: Sessional instructor

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

Authorization

Date:

Departmental Approval: Nola Etkin	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021
Faculty Dean's Approval: Nola Etkin	August 4, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

NEW COURSE PROPOSAL**Motion #10****LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL****SCIE 3010 Innovation and Entrepreneurship in Science**

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

Existing resources as of August 2021:

- Collections - Holdings, Subscriptions, Other
 - Books
 - Catalogue searches for print and online titles published since 2010
 - subject search for biotechnology: 1132 results
 - subject search for biotechnologie: 21 results
 - keyword search for bioscience: 1132 results
 - subject search for entrepreneurship: 1401 results
 - subject search for business planning: 1035 results
 - subject search for New business enterprises: 498 results
 - subject search for Start Ups/Venture Capital: 34 results
 - subject search for Strategic planning: 1172 results
 - subject search for Innovation/Technology Management: 1025 results
 - subject search for Business Strategy/Leadership: 473 results
 - Journals
 - A title search for biotechnology results in 337 journals (190 peer reviewed).
 - Subject categories:
 - Biology: 2262 journals (1,907 peer reviewed)
 - Biotechnology: 206 journals (162 peer reviewed)
 - Business & Management: 5,959 journals (2,238 peer reviewed)
 - Chemistry 1625 journals (1,344 peer reviewed)
 - Computer Science: 1095 journals (162 peer reviewed)
 - Engineering: 1797 journals (709 peer reviewed)
 - Databases
 - Business Source Complete
 - EconLit with Full Text (EBSCOhost)
 - Canadian Business & Current Affairs (CBCA) Complete
 - Gale/Cengage's Computer Database, Business Collection, Business, Economics and Theory Collection, Small Business Collection, and Communication and Mass Media Collection
 - JSTOR Arts & Sciences I - VIII Complement Collections and Life Sciences
 - SciFinder
 - Compendex
- Subscription Dependencies (in interdisciplinary packages)
 - eBook packages
 - O'Reilly Higher Education ebooks (Safari)
 - Elsevier eBooks
 - Sage Knowledge Complete
 - Springer eBooks
 - Journal packages
 - Elsevier ScienceDirect
 - Springer LINK



NEW COURSE PROPOSAL

Motion #10

- SAGE Premier Collection
- Wiley Online
- Databases (interdisciplinary)
 - Academic Search Complete
 - Canadian Socio-Economic Information (via CHASS)
 - MADCAD Standards
 - ANSI Standards
 - Compendex
 - CRCNetBase Handbooks
 - ASME Digital Collection
 - IEEE IEL Online (Xplore)
 - AccessEngineering
 - GreenFile
 - OneSearch (EBSCO EDS - Proxied)
 - PubMed
 - Scopus
 - SAGE Research Methods Video: Practical Research and Academic Skills
 - Sage Research Methods Foundations
 - Statista
- Media
 - Academic Videos Online (AVON, Alexander Street Press)
 - O'Reilly Higher Education
 - AccessEngineering
 - NFB Campus
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - Liaison Librarians provide reference and instruction support to both students and faculty as needed. They monitor publication lists for new titles in the subject area and purchase appropriate titles as existing budgetary resources permit.

New resources needed to support this proposal:

- Capital Requirements (*other than new course-specific*) - N/A
- Collections:
 - Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - none
- Other One-Time or Ongoing Library expenses (e.g. software licenses) - none

Summary of additional budget allocation required:

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

NEW COURSE PROPOSAL**Motion #10**

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

The Library currently has the resources to support this course, but it is almost entirely supported by database and ebook subscriptions and so ongoing institutional annual budgetary support (including the need to account for annual cost increases) is required to maintain these resources.

Date Received by Liaison/Collections Librarian	August 10, 2021
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	August 18, 2021

NEW COURSE PROPOSAL

Motion #11

Faculty/School: **Science**

Department/Program(s): **Chemistry/Biotechnology Minor**

MOTION: That a new course entitled BIOT 4610 Special Topics in Biotechnology be approved as proposed.

Course Number and Title	BIOT 4610: Special Topics in Biotechnology
Description	A course in which topics or issues in biotechnology are explored outside the core area.
Cross-Listing	
Prerequisite/Co-Requisite	None.
Credit(s)	3
Notation	3 lecture hours per week

This is: An Elective Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 10 **Is there an Enrolment Cap:** No

Rationale for New Course: This course will allow the offering any appropriate course without having to cross-list the course.

Effective Term: WINTER 2022

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Resources Required: Instructor.

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

Authorization

Date:

Departmental Approval: Brian Wagner	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021
Faculty Dean's Approval: Nola Etkin	August 4, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

NEW COURSE PROPOSAL**Motion #11****LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL****BIOT 4610: Special Topics in Biotechnology**

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

Existing resources as of August 2021:

- Collections - Holdings, Subscriptions, Other
 - Books –
 - Catalogue searches for print and online titles published since 2010
 - subject search for biotechnology: 1132 results
 - keyword search for biotechnology & case study or case studies: 63 results
 - subject search for bioethics: 273 results
 - subject search for bioengineering: 581
 - subject search for biotechnologie: 21 results
 - keyword search for bioscience: 1132 results
 - Journals
 - A title search for biotechnology results in 337 journals (190 peer reviewed).
 - Subject categories:
 - Biology: 2262 journals (1,907 peer reviewed)
 - Biotechnology: 206 journals (162 peer reviewed)
 - Chemistry 1625 journals (1,344 peer reviewed)
 - Computer Science: 1095 journals (162 peer reviewed)
 - Engineering: 1797 journals (709 peer reviewed)
 - Databases
 - ACM Digital Library (Association for Computing Machinery)
 - Gale/Cengage's Computer Database
 - MADCAD Standards
 - ANSI Standards
 - Compendex
 - CRCNetBase Handbooks
 - ASME Digital Collection
 - IEEE IEL Online (Xplore)
 - AccessEngineering
 - GreenFile
 - SciFinder
 - Royal Society of Chemistry
 - ACS Web Editions (American Chemical Society)
- Subscription Dependencies (in interdisciplinary packages)
 - eBook packages
 - O'Reilly Higher Education ebooks (Safari)
 - Elsevier eBooks

NEW COURSE PROPOSAL

Motion #11

- Sage Knowledge Complete
 - Springer eBooks
 - Journal packages
 - Elsevier ScienceDirect
 - Springer LINK
 - SAGE Premier Collection
 - Wiley Online
 - Databases (interdisciplinary)
 - Academic Search Complete
 - OneSearch (EBSCO EDS - Proxied)
 - PubMed
 - Scopus
 - SAGE Research Methods Video: Practical Research and Academic Skills
 - Sage Research Methods Foundations
 - Statista
 - Media
 - Academic Videos Online (AVON, Alexander Street Press)
 - O'Reilly Higher Education
 - AccessEngineering
 - NFB Campus
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - Liaison Librarians provide reference and instruction support to both students and faculty as needed. They monitor publication lists for new titles in the subject area and purchase appropriate titles as existing budgetary resources permit.

New resources needed to support this proposal:

- Capital Requirements (*other than new course-specific*) - N/A
- Collections:
 - Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - none
- Other One-Time or Ongoing Library expenses (e.g. software licenses) – none

Summary of additional budget allocation required:

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

NEW COURSE PROPOSAL**Motion #11**

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

The Library currently has the resources to support this course, but it is almost entirely supported by database and ebook subscriptions and so ongoing institutional annual budgetary support (including the need to account for annual cost increases) is required to maintain these resources.

Date Received by Liaison/Collections Librarian	August 10, 2021
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	August 18, 2021

Form Version: September 2021

NEW COURSE PROPOSAL

Motion #12

Faculty/School: **Science**

Department/Program(s): **Chemistry/Biotechnology Minor**

MOTION: That a new course entitled BIOT 4820 Experiential Learning Project in Biotechnology be approved as proposed.

Course Number and Title	BIOT 4820: Experiential Learning Project in Biotechnology
Description	This practical course offers students the opportunity to apply their knowledge and skills to working on and researching a problem in biotechnology. Students will work under the supervision of an industry mentor or/and a faculty member with a connection to local industry. Students are required to write a report describing the work and give an oral presentation on the work where academic and industry experts will be present.
Cross-Listing	
Prerequisite/Co-Requisite	BIOT 2020
Credit(s)	3
Notation	Minimum six hours per week.

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 10

Is there an Enrolment Cap: No

Rationale for New Course: This course will satisfy a practical, experiential learning component to the new programming, and further the engagement with industry experts and leaders.

Effective Term: WINTER 2022

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Resources Required: Coordinator.

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

Authorization

Date:

Departmental Approval: Brian Wagner	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021
Faculty Dean's Approval: Nola Etkin	August 4, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

Form Version: September 2021

NEW COURSE PROPOSAL**Motion #12****LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL****BIOT 4820 Experiential Learning Project in Biotechnology**

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

Existing resources as of August 2021:

- Collections - Holdings, Subscriptions, Other
 - Books –
 - Catalogue searches for print and online titles published since 2010
 - subject search for biotechnology: 1132 results
 - keyword search for biotechnology & case study or case studies: 63 results
 - subject search for bioethics: 273 results
 - subject search for bioengineering: 581
 - subject search for biotechnologie: 21 results
 - keyword search for bioscience: 1132 results
 - Journals
 - A title search for biotechnology results in 337 journals (190 peer reviewed).
 - Subject categories:
 - Biology: 2262 journals (1,907 peer reviewed)
 - Biotechnology: 206 journals (162 peer reviewed)
 - Chemistry 1625 journals (1,344 peer reviewed)
 - Computer Science: 1095 journals (162 peer reviewed)
 - Engineering: 1797 journals (709 peer reviewed)
 - Databases
 - ACM Digital Library (Association for Computing Machinery)
 - Gale/Cengage's Computer Database
 - MADCAD Standards
 - ANSI Standards
 - Compendex
 - CRCNetBase Handbooks
 - ASME Digital Collection
 - IEEE IEL Online (Xplore)
 - AccessEngineering
 - GreenFile
 - SciFinder
 - Royal Society of Chemistry
 - ACS Web Editions (American Chemical Society)
- Subscription Dependencies (in interdisciplinary packages)
 - eBook packages
 - O'Reilly Higher Education ebooks (Safari)
 - Elsevier eBooks
 - Sage Knowledge Complete
 - Springer eBooks
 - Journal packages
 - Elsevier ScienceDirect
 - Springer LINK
 - SAGE Premier Collection

NEW COURSE PROPOSAL

Motion #12

- Wiley Online
- Databases (interdisciplinary)
 - Academic Search Complete
 - OneSearch (EBSCO EDS - Proxied)
 - PubMed
 - Scopus
 - SAGE Research Methods Video: Practical Research and Academic Skills
 - Sage Research Methods Foundations
 - Statista
- Media
 - Academic Videos Online (AVON, Alexander Street Press)
 - O'Reilly Higher Education
 - AccessEngineering
 - NFB Campus
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - Liaison Librarians provide reference and instruction support to both students and faculty as needed. They monitor publication lists for new titles in the subject area and purchase appropriate titles as existing budgetary resources permit.

New resources needed to support this proposal:

- Capital Requirements (*other than new course-specific*) - N/A
- Collections:
 - Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - none
- Other One-Time or Ongoing Library expenses (e.g. software licenses) – none

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? The Library currently has the resources to support this course, but it is almost entirely supported by database and ebook subscriptions and so ongoing institutional annual budgetary support (including the need to account for annual cost increases) is required to maintain these resources.

Date Received by Liaison/Collections Librarian	August 10, 2021
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	August 18, 2021

NEW COURSE PROPOSAL

Motion #13

Faculty/School: **Science**

Department/Program(s): **Chemistry/Biotechnology Minor**

MOTION: That a new course entitled BIOT 4830 Advanced Biotechnology Laboratory be approved as proposed.

Course Number and Title	BIOT 4830: Advanced Biotechnology Laboratory
Description	A capstone laboratory course designed to enhance relevant skills of students who are interested in continuing their career in industry, e.g. a pharmaceutical company or a biotech start-up, or are taking the Biotechnology Minor. Students will select and carry out a number of short projects which are developed by faculty members in the various areas of Biotechnology. Students will be evaluated on their development of experimental procedures based on the biotechnology literature, scientific record-keeping, and preparation of reports.
Cross-Listing	
Prerequisite/Co-Requisite	BIOT 2020 – must be taken prior to this course.
Credit(s)	3
Notation	Six hours laboratory and one hour seminar per week.

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 10

Is there an Enrolment Cap: No

Rationale for New Course: This course comprises one optional and advanced path to fulfilling the required practical component at the third-year level of the Biotechnology Minor for high-skill training in biotechnology as part of the CASTL-UPEI partnership.

Effective Term: FALL 2022

Implications for Other Programs: We anticipate that this course will be a useful elective for students in the Biotechnology articulated program.

Impact on Students Currently Enrolled: None.

Resources Required: Instructor.

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

Authorization

Date:

Departmental Approval: Brian Wagner	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021
Faculty Dean's Approval: Nola Etkin	August 4, 2021
Graduate Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021



NEW COURSE PROPOSAL

Motion #13

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

BIOT 4830 Advanced Biotechnology Laboratory

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

Existing resources as of August 2021:

- Collections - Holdings, Subscriptions, Other
 - Books –
 - Catalogue searches for print and online titles published since 2010
 - subject search for biotechnology: 1132 results
 - keyword search for biotechnology & case study or case studies: 63 results
 - subject search for bioethics: 273 results
 - subject search for bioengineering: 581
 - subject search for biotechnologie: 21 results
 - keyword search for bioscience: 1132 results
 - Journals
 - A title search for biotechnology results in 337 journals (190 peer reviewed).
 - Subject categories:
 - Biology: 2262 journals (1,907 peer reviewed)
 - Biotechnology: 206 journals (162 peer reviewed)
 - Chemistry 1625 journals (1,344 peer reviewed)
 - Computer Science: 1095 journals (162 peer reviewed)
 - Engineering: 1797 journals (709 peer reviewed)
 - Databases
 - ACM Digital Library (Association for Computing Machinery)
 - Gale/Cengage's Computer Database
 - MADCAD Standards
 - ANSI Standards
 - Compendex
 - CRCNetBase Handbooks
 - ASME Digital Collection
 - IEEE IEL Online (Xplore)
 - AccessEngineering
 - GreenFile
 - SciFinder
 - Royal Society of Chemistry
 - ACS Web Editions (American Chemical Society)
- Subscription Dependencies (in interdisciplinary packages)
 - eBook packages
 - O'Reilly Higher Education ebooks (Safari)
 - Elsevier eBooks
 - Sage Knowledge Complete
 - Springer eBooks
 - Journal packages
 - Elsevier ScienceDirect
 - Springer LINK
 - SAGE Premier Collection

NEW COURSE PROPOSAL

Motion #13

- Wiley Online
 - Databases (interdisciplinary)
 - Academic Search Complete
 - OneSearch (EBSCO EDS - Proxied)
 - PubMed
 - Scopus
 - SAGE Research Methods Video: Practical Research and Academic Skills
 - Sage Research Methods Foundations
 - Statista
 - Media
 - Academic Videos Online (AVON, Alexander Street Press)
 - O'Reilly Higher Education
 - AccessEngineering
 - NFB Campus
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - Liaison Librarians provide reference and instruction support to both students and faculty as needed. They monitor publication lists for new titles in the subject area and purchase appropriate titles as existing budgetary resources permit.

New resources needed to support this proposal:

- Capital Requirements (*other than new course-specific*) - N/A
- Collections:
 - Monographs – Sufficient, but dependencies
 - Subscriptions – Sufficient, but dependencies
 - Databases – Sufficient, but dependencies
 - Other – Sufficient, but dependencies
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support - none
- Other One-Time or Ongoing Library expenses (e.g. software licenses) – none

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? The Library currently has the resources to support this course, but it is almost entirely supported by database and ebook subscriptions and so ongoing institutional annual budgetary support (including the need to account for annual cost increases) is required to maintain these resources.

Date Received by Liaison/Collections Librarian	August 10, 2021
Name of Librarian to be Contacted for Questions	Kim Mears
Approved by University Librarian or Designate - Name	August 18, 2021
Date Approved by UL or Designate	Donald Moses

CALENDAR AND CURRICULUM CHANGE

Motion #14

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

Faculty/School/Department: **Science**

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

MOTION: That the calendar change to add the Minor in Biotechnology be approved as proposed.

Reproduction of Current Calendar Entry	Proposed revision with changes underlined and deletions indicated clearly
<p>Chemistry Faculty Michael T.H. Liu, Professor Emeritus Brian D. Wagner, Professor, Chair Alaa Abd-El-Aziz, Professor Rabin Bissessur, Professor Nola Etkin, Professor Russell Kerr, Professor Barry Linkletter, Associate Professor Jason Pearson, Associate Professor Marya Ahmed, Assistant Professor Fabrice Berrue, Adjunct Professor Richard Bethell, Adjunct Professor Christopher Cartmell, Adjunct Professor J. Regis Duffy, Adjunct Professor Christopher Kirby, Adjunct Professor Stephanie MacQuarrie, Adjunct Professor Douglas Marchbank, Adjunct Professor John Riley, Adjunct Professor Marianne Rodgers, Adjunct Professor Accreditation received by the Canadian Society for Chemistry National Board for the Chemistry Major and Honours Program.</p> <p>GENERAL REQUIREMENTS For all courses with both laboratory and lecture components, credit will be granted only if satisfactory standing in both of these components has been obtained.</p> <p>REQUIREMENTS FOR A MAJOR IN CHEMISTRY Students pursuing a Bachelor of Science degree with a major in Chemistry must take at least 48 semester hours of chemistry in total and must at the same time complete certain courses as specified by the major requirements. The required Chemistry courses are: Chemistry 1110-1120, Chemistry 2210, Chemistry 2410-2420, Chemistry 2310, Chemistry 2720, Chemistry 3220, Chemistry 3310, Chemistry 3420, Chemistry 3530,</p>	<p>Chemistry Faculty Michael T.H. Liu, Professor Emeritus Brian D. Wagner, Professor, Chair Alaa Abd-El-Aziz, Professor Rabin Bissessur, Professor Nola Etkin, Professor Russell Kerr, Professor Barry Linkletter, Associate Professor Jason Pearson, Associate Professor Marya Ahmed, Assistant Professor Fabrice Berrue, Adjunct Professor Richard Bethell, Adjunct Professor Christopher Cartmell, Adjunct Professor J. Regis Duffy, Adjunct Professor Christopher Kirby, Adjunct Professor Stephanie MacQuarrie, Adjunct Professor Douglas Marchbank, Adjunct Professor John Riley, Adjunct Professor Marianne Rodgers, Adjunct Professor Accreditation received by the Canadian Society for Chemistry National Board for the Chemistry Major and Honours Program.</p> <p>GENERAL REQUIREMENTS For all courses with both laboratory and lecture components, credit will be granted only if satisfactory standing in both of these components has been obtained.</p> <p>REQUIREMENTS FOR A MAJOR IN CHEMISTRY Students pursuing a Bachelor of Science degree with a major in Chemistry must take at least 48 semester hours of chemistry in total and must at the same time complete certain courses as specified by the major requirements. The required Chemistry courses are: Chemistry 1110-1120, Chemistry 2210, Chemistry 2410-2420, Chemistry 2310, Chemistry 2720, Chemistry 3220, Chemistry 3310, Chemistry 3420, Chemistry 3530, Chemistry 3610, Chemistry 3740, Chemistry 4820 OR 4830 and two Chemistry electives, at least one of which is at the 4th year level.</p>

CALENDAR AND CURRICULUM CHANGE

Motion #14

Reproduction of Current Calendar Entry	Proposed revision with changes underlined and deletions indicated clearly
<p>Chemistry 3610, Chemistry 3740, Chemistry 4820 OR 4830 and two Chemistry electives, at least one of which is at the 4th year level.</p> <p>Additional course requirements for the Chemistry major include the following courses from other disciplines: Biology 1310-1320, Mathematics 1910, Mathematics 1920 and Mathematics 2910; Physics 1110-1120 (highly recommended) or Physics 1210-1220. As well, students majoring in Chemistry are advised to take Physics 2120 (Electricity, Magnetism, and Circuits).</p> <p>All programs of study of students declared as Chemistry majors must be approved by the Chair of the Department. An outline of the Chemistry major requirements in the suggested sequence for their completion is given below, but deviations from it are permitted provided that the pertinent prerequisites are fulfilled.</p> <p>First Year Chemistry 1110-1120 General Chemistry I and II Biology 1310-1320 General Biology I and II Physics 1110-1120 (highly recommended) or 1210-1220 General Physics Mathematics 1910-1920 Single Variable Calculus I and II Electives (6 semester hours)</p> <p>Second Year Chemistry 2210 Analytical Chemistry Chemistry 2410-2420 Organic Chemistry I & II Chemistry 2310 Physical Chemistry I Chemistry 2720 Inorganic Chemistry I Mathematics 2910 Multivariable and Vector Calculus Electives (9 semester hours)</p> <p>Third Year Chemistry 3220 Analytical Instrumentation Chemistry 3310 Physical Chemistry II Chemistry 3420 Advanced Organic Chemistry Chemistry 3610 Organic Spectroscopy Chemistry 3740 Inorganic Chemistry II Electives (15 semester hours)</p> <p>Fourth Year Chemistry 3530 Biochemistry Chemistry 4820 Advanced Research Project OR 4830 Advanced Chemistry Laboratory Chemistry Electives Electives 15 or 18</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</p>	<p>Additional course requirements for the Chemistry major include the following courses from other disciplines: Biology 1310-1320, Mathematics 1910, Mathematics 1920 and Mathematics 2910; Physics 1110-1120 (highly recommended) or Physics 1210-1220. As well, students majoring in Chemistry are advised to take Physics 2120 (Electricity, Magnetism, and Circuits).</p> <p>All programs of study of students declared as Chemistry majors must be approved by the Chair of the Department. An outline of the Chemistry major requirements in the suggested sequence for their completion is given below, but deviations from it are permitted provided that the pertinent prerequisites are fulfilled.</p> <p>First Year Chemistry 1110-1120 General Chemistry I and II Biology 1310-1320 General Biology I and II Physics 1110-1120 (highly recommended) or 1210-1220 General Physics Mathematics 1910-1920 Single Variable Calculus I and II Electives (6 semester hours)</p> <p>Second Year Chemistry 2210 Analytical Chemistry Chemistry 2410-2420 Organic Chemistry I & II Chemistry 2310 Physical Chemistry I Chemistry 2720 Inorganic Chemistry I Mathematics 2910 Multivariable and Vector Calculus Electives (9 semester hours)</p> <p>Third Year Chemistry 3220 Analytical Instrumentation Chemistry 3310 Physical Chemistry II Chemistry 3420 Advanced Organic Chemistry Chemistry 3610 Organic Spectroscopy Chemistry 3740 Inorganic Chemistry II Electives (15 semester hours)</p> <p>Fourth Year Chemistry 3530 Biochemistry Chemistry 4820 Advanced Research Project OR 4830 Advanced Chemistry Laboratory Chemistry Electives Electives 15 or 18</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>



CALENDAR AND CURRICULUM CHANGE

Motion #14

Reproduction of Current Calendar Entry	Proposed revision with changes underlined and deletions indicated clearly
<p>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 MINOR IN CHEMISTRY Students may obtain a degree with a minor in Chemistry by successfully completing the following courses: Chemistry 1110 and 1120 Chemistry 2210 Chemistry 2310 Chemistry 2720 AND Chemistry 2020 and 2430 OR Chemistry 2410 and 2420 With permission of the chair, one of the above courses may be replaced with one of Chemistry 3220, 3310, 3420, 3610 or 3740.</p> <p>REQUIREMENTS FOR HONOURS IN CHEMISTRY The Honours Program in Chemistry is designed to provide research experience at the undergraduate level within the BSc program. It is available to students with a strong academic background who intend to continue studies at the post-graduate level in Chemistry or some related field, or to students who intend to pursue a career where research experience would be an asset. The Honours Program differs from the major in requiring a two-semester research course with thesis report, in the requirement of 126 semester hours for the degree and in the requirement of an additional five advanced Chemistry courses. The following are the course requirements for the Honours Program in Chemistry: First Year Chemistry 1110-1120 General Chemistry I and II Biology 1310-1320 General Biology I and II Physics 1110-1120 (highly recommended) or 1210-1220 General Physics Mathematics 1910-1920 Introductory Calculus I and II Electives (6 semester hours) Total 32 semester hours Second Year Chemistry 2210 Analytical Chemistry</p>	<p>REQUIREMENTS FOR A MINOR IN CHEMISTRY Students may obtain a degree with a minor in Chemistry by successfully completing the following courses: Chemistry 1110 and 1120 Chemistry 2210 Chemistry 2310 Chemistry 2720 AND Chemistry 2020 and 2430 OR Chemistry 2410 and 2420 With permission of the chair, one of the above courses may be replaced with one of Chemistry 3220, 3310, 3420, 3610 or 3740.</p> <p>REQUIREMENTS FOR HONOURS IN CHEMISTRY The Honours Program in Chemistry is designed to provide research experience at the undergraduate level within the BSc program. It is available to students with a strong academic background who intend to continue studies at the post-graduate level in Chemistry or some related field, or to students who intend to pursue a career where research experience would be an asset. The Honours Program differs from the major in requiring a two-semester research course with thesis report, in the requirement of 126 semester hours for the degree and in the requirement of an additional five advanced Chemistry courses. The following are the course requirements for the Honours Program in Chemistry: First Year Chemistry 1110-1120 General Chemistry I and II Biology 1310-1320 General Biology I and II Physics 1110-1120 (highly recommended) or 1210-1220 General Physics Mathematics 1910-1920 Introductory Calculus I and II Electives (6 semester hours) Total 32 semester hours Second Year Chemistry 2210 Analytical Chemistry Chemistry 2410-2420 Organic Chemistry I & II Chemistry 2310 Physical Chemistry I Chemistry 2720 Inorganic Chemistry I Mathematics 2910 Multivariable and Vector Calculus Electives (9 semester hours) Total 28 semester hours Third Year Chemistry 3220 Analytical Instrumentation</p>

CALENDAR AND CURRICULUM CHANGE

Motion #14

Reproduction of Current Calendar Entry	Proposed revision with changes underlined and deletions indicated clearly
<p>Chemistry 2410-2420 Organic Chemistry I & II Chemistry 2310 Physical Chemistry I Chemistry 2720 Inorganic Chemistry I Mathematics 2910 Multivariable and Vector Calculus Electives (9 semester hours) Total 28 semester hours</p> <p>Third Year Chemistry 3220 Analytical Instrumentation Chemistry 3310 Physical Chemistry II Chemistry 3420 Advanced Organic Chemistry Chemistry 3530 Biochemistry Chemistry 3610 Organic Spectroscopy Chemistry 3740 Inorganic Chemistry II Chemistry elective (3 semester hours) Mathematics elective (3 semester hours) Electives (6 semester hours) Total 30 semester hours</p> <p>Fourth Year Chemistry 4320 Methods in Computational Chemistry Chemistry 4410 Physical Organic Chemistry Chemistry 4670 Inorganic Reaction Mechanisms and Catalysis OR Chemistry 4680 Advanced Inorganic Chemistry Chemistry 4900 Honours Thesis Chemistry electives (6 semester hours) Electives (9 semester hours) Total 36 semester hours</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>Honours students should note that Chemistry 4900 is a two- semester course and carries twelve semester hours of credit. No credit for the first semester will be granted without successful completion of the second semester of the course.</p> <p>For admission to the Honours Program, students must have a minimum average of 70% in all previous courses; normally the Department expects high second-class standing or first-class standing in previous Chemistry courses. Permission of the Department is also required and is contingent on the student finding an Honours Advisor, on being assigned an advisory committee, on acceptance of the research project by the</p>	<p>Chemistry 3310 Physical Chemistry II Chemistry 3420 Advanced Organic Chemistry Chemistry 3530 Biochemistry Chemistry 3610 Organic Spectroscopy Chemistry 3740 Inorganic Chemistry II Chemistry elective (3 semester hours) Mathematics elective (3 semester hours) Electives (6 semester hours) Total 30 semester hours</p> <p>Fourth Year Chemistry 4320 Methods in Computational Chemistry Chemistry 4410 Physical Organic Chemistry Chemistry 4670 Inorganic Reaction Mechanisms and Catalysis OR Chemistry 4680 Advanced Inorganic Chemistry Chemistry 4900 Honours Thesis Chemistry electives (6 semester hours) Electives (9 semester hours) Total 36 semester hours</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>Honours students should note that Chemistry 4900 is a two- semester course and carries twelve semester hours of credit. No credit for the first semester will be granted without successful completion of the second semester of the course.</p> <p>For admission to the Honours Program, students must have a minimum average of 70% in all previous courses; normally the Department expects high second-class standing or first-class standing in previous Chemistry courses. Permission of the Department is also required and is contingent on the student finding an Honours Advisor, on being assigned an advisory committee, on acceptance of the research project by the Chemistry Department, and on general acceptability. Students interested in doing Honours should consult with the Department Chair as early as possible and not later than March 31 of the student's third year.</p> <p>To graduate with a BSc Honours in Chemistry, students must complete 126 semester hours of credit which meet the required courses outlined above. As well, students must attain a 75% average in all Chemistry courses combined and must achieve a minimum overall average</p>

CALENDAR AND CURRICULUM CHANGE

Motion #14

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<p>Chemistry Department, and on general acceptability. Students interested in doing Honours should consult with the Department Chair as early as possible and not later than March 31 of the student's third year. To graduate with a BSc Honours in Chemistry, students must complete 126 semester hours of credit which meet the required courses outlined above. As well, students must attain a 75% average in all Chemistry courses combined and must achieve a minimum overall average of 70% in all courses submitted for the degree. Students failing to meet the Honours requirements may apply for a transfer to the BSc Chemistry Major Program or to other degree programs.</p> <p>CO-OP EDUCATION IN CHEMISTRY The UPEI Co-op Program is an integrated approach to university education which enables students to alternate academic terms on campus with work terms in suitable employment. The success of such programs is founded on the principle that students are able to apply theoretical knowledge from course studies in the workplace and return to the classroom with practical workplace experience. Students who successfully complete all the requirements of the program will have the notation entered on their transcripts and on the graduation parchment. Students accepted into the program, complete at least three paid work terms of normally 14 weeks duration, and three professional development courses. Credits earned through completion of work terms are counted as general electives. The Co-op option is available to full-time students in the Chemistry Major or Honours program. Applications to the Co-op Education Program are normally made after completion of the first year of study. See the Co-operative Education Program section of the UPEI Academic Calendar for more information.</p> <p>Bachelor of Science in Biotechnology This program combines practical and applied courses provided by the Bioscience Technology diploma program at Holland College with strong theoretical science courses at the University of Prince Edward Island. It is designed for students interested in obtaining a rigorous and broad training in biotechnology, such as gaining experience in research, laboratory procedures and safety, scientific ethics, and</p>	<p>of 70% in all courses submitted for the degree. Students failing to meet the Honours requirements may apply for a transfer to the BSc Chemistry Major Program or to other degree programs.</p> <p>CO-OP EDUCATION IN CHEMISTRY The UPEI Co-op Program is an integrated approach to university education which enables students to alternate academic terms on campus with work terms in suitable employment. The success of such programs is founded on the principle that students are able to apply theoretical knowledge from course studies in the workplace and return to the classroom with practical workplace experience. Students who successfully complete all the requirements of the program will have the notation entered on their transcripts and on the graduation parchment. Students accepted into the program, complete at least three paid work terms of normally 14 weeks duration, and three professional development courses. Credits earned through completion of work terms are counted as general electives. The Co-op option is available to full-time students in the Chemistry Major or Honours program. Applications to the Co-op Education Program are normally made after completion of the first year of study. See the Co-operative Education Program section of the UPEI Academic Calendar for more information.</p> <p>Bachelor of Science in Biotechnology This program combines practical and applied courses provided by the Bioscience Technology diploma program at Holland College with strong theoretical science courses at the University of Prince Edward Island. It is designed for students interested in obtaining a rigorous and broad training in biotechnology, such as gaining experience in research, laboratory procedures and safety, scientific ethics, and regulatory affairs, while increasing access to post-graduate opportunities (e.g. Master's degree programs). Students are provided with foundational science courses as well as senior specialized courses in the life sciences at the university level to complement the strong hands-on technical training acquired during the college diploma program. On-the-job training is provided for all students. There are two paths into this program, so students can either start at Holland College or UPEI, and end up with the same articulated degree. The technical lab-based content is covered at Holland College in the Bioscience</p>

CALENDAR AND CURRICULUM CHANGE

Motion #14

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<p>regulatory affairs, while increasing access to post-graduate opportunities (e.g. Master's degree programs). Students are provided with foundational science courses as well as senior specialized courses in the life sciences at the university level to complement the strong hands-on technical training acquired during the college diploma program. On-the-job training is provided for all students.</p> <p>There are two paths into this program, so students can either start at Holland College or UPEI, and end up with the same articulated degree. The technical lab-based content is covered at Holland College in the Bioscience Technology diploma program, either during the first two years of the degree (for students who start at Holland College; Path 1) or in year 3 (for students who start at UPEI; Path 2).</p> <p>Path 1, starting at Holland College ('2+2'): If students have received a Bioscience Technology diploma and achieved a minimum 70% average at Holland College, they are eligible to apply to UPEI for formal entry into the BBT degree program. Once accepted to UPEI, students will undertake a rigorous program of 20 courses, 13 of which will be required, 3 will be upper level science electives, and 4 will be general electives. Once accepted, students are subject to all of the Academic Regulations of the University.</p> <p>Path 2, starting at UPEI ('2+1+1'): Students apply to start at UPEI in the Faculty of Science directly out of high school, following standard application procedures at UPEI. Once accepted, students undertake one year of science courses similar to a first year biology or chemistry student (8 required courses, 2 electives). Then students apply to Holland College to do the Bioscience Technology diploma program by the deadline of May 1st. Once accepted, they complete their second year of science at UPEI (7 required courses, 3 electives), and then one full year at Holland College in the Bioscience Technology diploma program (includes 2 intersessions). Students then finish back at UPEI in their final year (4 required courses, 3 upper level science electives, 3 general electives). For students who already have received a Bioscience Technology diploma, the recommended sequence of courses for the 2 years of Path 1 at UPEI is:</p> <p>Year 1, Semester 1 at UPEI: Chemistry 2430 – Organic Chemistry for Life Sciences Chemistry 2210 – Analytical Chemistry Mathematics 1120 – Calculus for the Managerial, Social, and Life Sciences</p>	<p>Technology diploma program, either during the first two years of the degree (for students who start at Holland College; Path 1) or in year 3 (for students who start at UPEI; Path 2).</p> <p>Path 1, starting at Holland College ('2+2'): If students have received a Bioscience Technology diploma and achieved a minimum 70% average at Holland College, they are eligible to apply to UPEI for formal entry into the BBT degree program. Once accepted to UPEI, students will undertake a rigorous program of 20 courses, 13 of which will be required, 3 will be upper level science electives, and 4 will be general electives. Once accepted, students are subject to all of the Academic Regulations of the University.</p> <p>Path 2, starting at UPEI ('2+1+1'): Students apply to start at UPEI in the Faculty of Science directly out of high school, following standard application procedures at UPEI. Once accepted, students undertake one year of science courses similar to a first year biology or chemistry student (8 required courses, 2 electives). Then students apply to Holland College to do the Bioscience Technology diploma program by the deadline of May 1st. Once accepted, they complete their second year of science at UPEI (7 required courses, 3 electives), and then one full year at Holland College in the Bioscience Technology diploma program (includes 2 intersessions). Students then finish back at UPEI in their final year (4 required courses, 3 upper level science electives, 3 general electives). For students who already have received a Bioscience Technology diploma, the recommended sequence of courses for the 2 years of Path 1 at UPEI is:</p> <p>Year 1, Semester 1 at UPEI: Chemistry 2430 – Organic Chemistry for Life Sciences Chemistry 2210 – Analytical Chemistry Mathematics 1120 – Calculus for the Managerial, Social, and Life Sciences Physics 1210 – Physics for the Life Sciences I One Humanities or General Elective</p> <p>Year 1, Semester 2 at UPEI: One of UPEI 1010 or 1020 or 1030 Biology 2210 – Cell Biology Chemistry 3530 – Biochemistry Physics 1220 – Physics for the Life Sciences II One Humanities or General Elective</p> <p>Year 2, Semester 1 at UPEI: Biology 3260 – Introduction to Physiology of Cells and Organisms Statistics 1210 – Introductory Statistics</p>



CALENDAR AND CURRICULUM CHANGE

Motion #14

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<p>Physics 1210 – Physics for the Life Sciences I One Humanities or General Elective Year 1, Semester 2 at UPEI: One of UPEI 1010 or 1020 or 1030 Biology 2210 – Cell Biology Chemistry 3530 – Biochemistry Physics 1220 – Physics for the Life Sciences II One Humanities or General Elective Year 2, Semester 1 at UPEI: Biology 3260 – Introduction to Physiology of Cells and Organisms Statistics 1210 – Introductory Statistics One Science Elective at the 3000 level One Science Elective at the 4000 level One Humanities or General Elective Year 2, Semester 2 at UPEI: Biology 3220 – Introduction to Bioinformatics Biology 4710 – Molecular Biotechnology Chemistry 3220 – Analytical instrumentation One Science Elective at the 3000 or 4000 level One Humanities or General Elective For students who have not received a Bioscience Technology diploma, the recommended sequence of courses for the 4 years of Path 2 is: Year 1, Semester 1 at UPEI: Biology 1310 – Introduction to Cell and Molecular Biology Chemistry 1110 – General Chemistry I Mathematics 1120 – Calculus for the Managerial, Social, and Life Sciences Physics 1210 – Physics for the Life Sciences I One Humanities or General Elective Year 1, Semester 2 at UPEI: Biology 1320 – Introduction to Organisms Chemistry 1120 – General Chemistry II Physics 1220 – Physics for the Life Sciences II One of UPEI 1010 or 1020 or 1030 One Humanities or General Elective Year 2, Semester 1 at UPEI: Biology 2210 – Cell Biology Chemistry 2430 – Organic Chemistry for Life Sciences Statistics 1210 – Introductory Statistics One Science Elective One Humanities or General Elective Year 2, Semester 2 at UPEI: Biology 2060 – Microbiology Biology 2230 – Genetics Chemistry 2310 – Physical Chemistry I Chemistry 3530 – Biochemistry</p>	<p>One Science Elective at the 3000 level One Science Elective at the 4000 level One Humanities or General Elective Year 2, Semester 2 at UPEI: Biology 3220 – Introduction to Bioinformatics Biology 4710 – Molecular Biotechnology Chemistry 3220 – Analytical instrumentation One Science Elective at the 3000 or 4000 level One Humanities or General Elective For students who have not received a Bioscience Technology diploma, the recommended sequence of courses for the 4 years of Path 2 is: Year 1, Semester 1 at UPEI: Biology 1310 – Introduction to Cell and Molecular Biology Chemistry 1110 – General Chemistry I Mathematics 1120 – Calculus for the Managerial, Social, and Life Sciences Physics 1210 – Physics for the Life Sciences I One Humanities or General Elective Year 1, Semester 2 at UPEI: Biology 1320 – Introduction to Organisms Chemistry 1120 – General Chemistry II Physics 1220 – Physics for the Life Sciences II One of UPEI 1010 or 1020 or 1030 One Humanities or General Elective Year 2, Semester 1 at UPEI: Biology 2210 – Cell Biology Chemistry 2430 – Organic Chemistry for Life Sciences Statistics 1210 – Introductory Statistics One Science Elective One Humanities or General Elective Year 2, Semester 2 at UPEI: Biology 2060 – Microbiology Biology 2230 – Genetics Chemistry 2310 – Physical Chemistry I Chemistry 3530 – Biochemistry Intersession between years 2 and 3 at Holland College: Chemistry 1200 – Introduction to Chromatography Biology 1310 – Immunology Year 3, Semester 1 at Holland College: Bios 2000 – Analytical Techniques in Bioscience Bios 2100 – Industrial Bioproducts: Production and Purification Biology 2300 – Cell Culturing Biology 2310 – Molecular Biology Mathematics 2000 – Calculus Bios 2300 – Research Preparation: Bioscience</p>

CALENDAR AND CURRICULUM CHANGE

Motion #14

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<p>One Humanities or General Elective Intercession between years 2 and 3 at Holland College: Chemistry 1200 – Introduction to Chromatography Biology 1310 – Immunology Year 3, Semester 1 at Holland College: Bios 2000 – Analytical Techniques in Bioscience Bios 2100 – Industrial Bioproducts: Production and Purification Biology 2300 – Cell Culturing Biology 2310 – Molecular Biology Mathematics 2000 – Calculus Bios 2300 – Research Preparation: Bioscience Technology Year 3, Semester 2 at Holland College: Bios-2010 – Ethics and Professional Practice Chemistry 2300 – Advanced Biochemistry Bios-2050 – Research Project: Bioscience Technology Intercession between years 3 and 4 at Holland College: Bios 2310 – Research Project: Bioscience Technology Year 4, Semester 1 at UPEI: Biology 3260 – Introduction to Physiology of Cells and Organisms One Science Elective at the 3000 level One Science Elective at the 4000 level Two General Electives Year 4, Semester 2 at UPEI: Biology 3220 – Introduction to Bioinformatics Biology 4710 – Molecular Biotechnology Chemistry 3220 – Analytical instrumentation One Science Elective at the 3000 or 4000 level One General Elective</p> <p>NOTES REGARDING 1000-LEVEL CHEMISTRY COURSES Chemistry 1110-1120 are introductory courses required for, but not restricted to, Chemistry Majors and Honours. A combined average of at least 60% is a prerequisite for all Chemistry courses above the 1000 level. However, this course prerequisite may also be met by the successful completion of a qualifying examination to be offered each year on the first Tuesday after Labour Day. This examination, which shall cover material from both is open to those who have passing grades for both Chemistry 1110 and 1120, but who do not have a combined average of at least 60%. To be admitted to Chemistry courses above the 1000 level, students must achieve a score of 65% on the</p>	<p>Technology Year 3, Semester 2 at Holland College: Bios-2010 – Ethics and Professional Practice Chemistry 2300 – Advanced Biochemistry Bios-2050 – Research Project: Bioscience Technology Intercession between years 3 and 4 at Holland College: Bios 2310 – Research Project: Bioscience Technology Year 4, Semester 1 at UPEI: Biology 3260 – Introduction to Physiology of Cells and Organisms One Science Elective at the 3000 level One Science Elective at the 4000 level Two General Electives Year 4, Semester 2 at UPEI: Biology 3220 – Introduction to Bioinformatics Biology 4710 – Molecular Biotechnology Chemistry 3220 – Analytical instrumentation One Science Elective at the 3000 or 4000 level One General Elective</p> <p><u>MINOR IN BIOTECHNOLOGY</u> <u>A student will obtain a minor in Biotechnology by successfully completing 21 semester hours of courses drawn from required BIOT courses and approved electives. *NOTE: This Minor is not an option for students in the Bachelor of Science in Biotechnology program.</u></p> <p><u>1. Required Courses:</u> <u>BIOT 1020 Field Studies in Biotechnology on PEI</u> <u>BIOT 2020 Case Studies in Biotechnology</u></p> <p><u>2. One of:</u> <u>BIOT 4820 Experiential Learning Project in Biotechnology, or</u> <u>BIOT 4830 Advanced Biotechnology Laboratory</u> <u>OR an approved Biotechnology-related Research course or honours project, or a UPEI Co-op Program work placement also Biotechnology-related and approved by the biotechnology program).</u></p> <p><u>3. Twelve (12) semester hours (4 courses) chosen from the list below, with no more than six semester hours of these within one discipline.</u></p> <p><u>Approved electives that may be used towards the Biotechnology Minor:</u> <u>Biology 2230 Genetics I</u> <u>Biology 2210 Cell and Molecular Biology</u></p>

CALENDAR AND CURRICULUM CHANGE

Motion #14

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<p>qualifying examination. The score on the qualifying exam will not replace those attained in Chemistry 1110 and 1120, nor shall it be factored into any calculation of grades for graduation, scholarships or other purposes. This course prerequisite may also be waived with the permission of the Chair for individual courses. This 60% combined average regulation does not apply to students who have received credit for Chemistry 1110-1120 prior to the 2007-2008 academic year.</p>	<p> <u>Biology 2060 Microbiology</u> <u>Biology 2250 Human Biochemistry</u> <u>Biology 3230 Genetics II</u> <u>Biology 3520 Molecular Biology Research Techniques</u> <u>Biology 4040 Endocrinology</u> <u>Biology 4710 Molecular Biotechnology</u> <u>Biotechnology 4610: Special Topics in Biotechnology</u> <u>Chemistry 2210 Analytical Chemistry</u> <u>Chemistry 2420 Organic Chemistry II</u> <u>Chemistry 2430 Organic Chemistry for the Life Sciences</u> <u>Chemistry 2310 Physical Chemistry I</u> <u>Chemistry 3530 Biochemistry</u> <u>Chemistry 4810-1 Special Topics — Medicines from the Sea</u> <u>Chemistry 3220 Analytical Instrumentation</u> <u>Chemistry 4090 Biomaterials</u> <u>Computer Science 3220/Biology 3220 Introduction to Bioinformatics</u> <u>Foods and Nutrition 3020 Advanced Foods</u> <u>Foods and Nutrition 4120 Human Metabolism</u> <u>Physics 2210 Modern Physics</u> <u>Physics 2010 Waves and Oscillations</u> <u>Physics 3420 Introduction to Medical Physics</u> <u>Physics 3520 Biomedical Imaging</u> <u>Physics 3610 Solid State Physics</u> <u>Physics 3910 Radiation Detection and Measurement</u> <u>Physics 4140 Optics and Photonics</u> <u>Science 3010 Innovation and Entrepreneurship in Science</u> </p> <p><u>Approved Holland College Offerings (Letter of Permission required)</u> <u>BIOS-1200 Laboratory Techniques</u> <u>BIOL-1315 Theoretical and Applied Immunology</u></p> <p><u>Many of the above-listed courses have prerequisites. For example, many of these courses that are 2000-level and above, require 1000-level introductory courses in Biology, Chemistry, or Physics, and may have additional 2000-level or 3000-level prerequisites. Students are advised to plan ahead accordingly.</u></p> <p>NOTES REGARDING 1000-LEVEL CHEMISTRY COURSES Chemistry 1110-1120 are introductory courses required for, but not restricted to, Chemistry Majors and Honours. A combined average of at least 60% is a prerequisite for all Chemistry courses above the 1000</p>

CALENDAR AND CURRICULUM CHANGE

Motion #14

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	level. However, this course prerequisite may also be met by the successful completion of a qualifying examination to be offered each year on the first Tuesday after Labour Day. This examination, which shall cover material from both is open to those who have passing grades for both Chemistry 1110 and 1120, but who do not have a combined average of at least 60%. To be admitted to Chemistry courses above the 1000 level, students must achieve a score of 65% on the qualifying examination. The score on the qualifying exam will not replace those attained in Chemistry 1110 and 1120, nor shall it be factored into any calculation of grades for graduation, scholarships or other purposes. This course prerequisite may also be waived with the permission of the Chair for individual courses. This 60% combined average regulation does not apply to students who have received credit for Chemistry 1110-1120 prior to the 2007-2008 academic year.

Rationale for Change: Given the rapid growth of the Biotechnology sector in PEI, which has more than tripled in size since 2005 with remarkable growth in business revenues and employment, there is an identified need for high-skilled training by faculty at UPEI, the PEI BioAlliance, and CASTL to support growth of those industries in current and new directions. Simultaneously, there is an opportunity for novel and high-level competency-building courses in Biotechnology, and in Science in general, that do not yet exist at UPEI and for which significant demand is anticipated. This minor will complement the articulated major in Biotechnology. The minor would be housed administratively by the Department of Chemistry, where the Biotechnology articulation program with Holland College already resides.

Effective Term: WINTER 2022

Implications for Other Programs: Any student in any major in the Faculty of Science will be able to supplement their major with this minor. It is anticipated that this minor will lead to increased interest in the UPEI Co-op Program.

Impact on Students Currently Enrolled: None.

Authorization

Date:

Departmental Approval: Brian Wagner	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021
Faculty Dean's Approval: Nola Etkin	August 4, 2021
Grad. Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021



CALENDAR AND CURRICULUM CHANGE

Motion #15

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

Faculty/School/Department: **Science**

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

MOTION: That the calendar change to Science Seminars be approved as proposed.

Reproduction of Current Calendar Entry	Proposed revision with changes underlined and deletions indicated clearly
89 Science Seminars	89 Science <u>Seminars</u>

Rationale for Change: The change of name of the calendar category entry 'Science Seminars' to 'Science' is proposed to better reflect the role of that administrative locus for a small number of (non-seminar) courses including the proposed new Innovation and Entrepreneurship course, SCIE 3010.

Effective Term: WINTER 2022

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Authorization Date:

Departmental Approval: Nola Etkin	August 4, 2021
Faculty/School Approval: Science Council	August 4, 2021
Faculty Dean's Approval: Nola Etkin	August 4, 2021
Grad. Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

SUMMARY OF REGISTRAR'S OFFICE MOTION #'S 16-18

EAP Courses

Grade Mode Change

UPEI Calendar Dates

2021-2022 Calendar Dates

Revised dates

AVC Calendar Dates

2021-2022 Calendar Dates

Revised dates



CALENDAR & CURRICULUM CHANGE

Motion #16

Revision is for a: **Grade Mode Change**

Faculty/School/Department: **Registrar's Office**

Department/Program(s)/Academic Regulations: **English Language Centre**

MOTION: To accept a change to the passing grade in EAP courses (non-credit) from 60% to 70% as proposed.

<u>Reproduction of Current Calendar Entry</u>	<u>Proposed revision with changes underlined and deletions indicated clearly</u>
Section: 51 Successful completion of EAP is demonstrated through: 1) course work, and 2) the final EAP exam. EAP students must have a passing grade of 60% in their EAP courses and 4.5 or higher in all sections of the final EAP exam to graduate from the program. Students must successfully complete EAP before progressing into second year	Section 51: Successful completion of EAP is demonstrated through: 1) course work, and 2) the final EAP exam. EAP students must have a passing grade of 60% 70% in their <u>all</u> EAP courses and 4.5 or higher in all sections of the final EAP exam <u>in EAP Level 7</u> to graduate from the program. Students must successfully complete EAP before progressing into second year

Rationale for Change: Changing the passing grade for EAP courses aligns better with what is required in standardized English proficiency exams at the undergraduate entrance level (eg. CanTEST 4.5 = 72%). Furthermore, EAP courses are skills-based, meaning that a student who has mastered 70% of the outcomes of a particular level is deemed ready move onto the curricular outcomes of next level courses (levels 2-6), or graduate from EAP (level 7).

Effective Term: WINTER 2022

Implications for Other Programs: No implications to other programs.

Impact on Students Currently Enrolled: No implications to students currently enrolled.

Authorization	Date:
Departmental Approval: Megan MacLean	August 3, 2021
Faculty/School Approval: N/A	August 3, 2021
Faculty Dean's Approval: Donna Sutton	August 3, 2021
Grad. Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

CALENDAR & CURRICULUM CHANGE

Motion #17

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

Faculty/School/Department: **Registrar's Office**

Department/Program(s)/Academic Regulations: **2021-2022 Academic Calendar Dates**

MOTION: To have the changes in the 2021-22 Calendar dates approved as proposed.

UPEI Calendar Dates 2021-2022

Fall Semester – September–December 2021

All programs except Doctor of Veterinary Medicine

September 2021

8 Wednesday	Classes Begin
12 Sunday	Final date to apply to graduate for Fall Semester for the January 14th meeting of Senate.
17 Friday	FINAL DAY FOR REGISTRATION, FOR CHANGING COURSES OR SECTIONS, FOR CANCELLATION OF COURSES OR SECTIONS, FOR CANCELLATION OF COURSES WITH FULL REFUND; All Fall Semester Fees due.
30 Thursday	<u>National Day for Truth and Reconciliation. No classes.</u>

October 2021

11 (Mon)	Thanksgiving Day. No classes.
12-15 (Tues-Fri)	Mid-semester break. No classes. (Does not apply to BEd and EMBA)
29 Friday	Last day for discontinuing courses – 50% tuition refund. No discontinuations after this date.

November 2021

11 Thursday	Remembrance Day. No Classes
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December 2021

8-9 Wednesday Thursday	Final Day of Fall Semester Classes	60 Teaching Days
11 12-21 (Sat Sun-Tues)	**EXAMINATIONS. No examinations will be held during the period 25 November to 8 9 December inclusive without the permission of the Chair and Dean. Note: Please see Academic Regulation #13.	
12 Sunday	No Exams <u>afternoon and evening only</u>	
19 Sunday	Exams afternoon and evening only	
22 Wednesday	End of Fall Semester. Course grades to be submitted to Registrar's Office by noon on this date.	
31 Friday	Final date to apply to graduate for Winter Semester for the May Convocations.	

Winter Semester - January–May 2022

All programs except Veterinary Medicine

January 2022

10 Monday	Classes Begin
21 Friday	FINAL DAY FOR REGISTRATION, FOR CHANGING COURSES OR SECTIONS, FOR CANCELLATION OF COURSES OR SECTIONS, FOR CANCELLATION OF COURSES WITH FULL REFUND; All Winter Semester Fees Due.



CALENDAR & CURRICULUM CHANGE

Motion #17

February 2022

21 (Mon)	Islander Day. No classes.
22-25 (Tues-Fri)	Mid-semester break. No classes. (Does not apply to BEd and EMBA)
22 Tuesday	Registration begins for 2022 Summer
28 Monday	Classes resume
28 Monday	Last day for discontinuing courses – 50% tuition refund. No discontinuations after this date.

April 2022

8 Friday	Final Day of Winter Semester Classes	60 Teaching Days
11-26 (Mon-Tues)	**EXAMINATIONS. No examinations will be held during the period 28 March to 8 April inclusive without the permission of the Chair and Dean. Note: Please see Academic Regulation #13.	
15 Friday	Good Friday. No exams/ <u>classes</u> .	
18 Monday	Easter Monday. No exams/ <u>classes</u> .	
29 Friday	End of Winter Semester. Course grades for fourth year students to be submitted to the Registrar's Office by noon on this date.	

May 2022

6 Friday	Course grades for third year, second year, and first year students to be submitted to Registrar's Office by noon on this date.	
10 Tuesday	CONVOCATION MORNING (Faculty of Veterinary Medicine and Faculty of Nursing)	
11 Wednesday	CONVOCATION MORNING (Faculty of Business and Faculty of Engineering)	
12 Thursday	CONVOCATION MORNING (Faculty of Arts and Faculty of Education)	
13 Friday	CONVOCATION MORNING (Faculty of Science)	
17 Tuesday	Registration begins for students with 4 th year standing	
24 Tuesday	Registration begins for students with 3 rd year standing	
26 Thursday	Registration begins for students with 2 nd year standing	
30 Monday	Registration begins for all other students	

Summer Semester - May-August 2022

FIRST SUMMER SESSION 2022

MAY 2022

16 Monday	First Summer Session classes begin
20 Friday	Last day to register late for First Summer Session courses; last day to cancel registration for full refund; last day for changing courses or sections
23 Monday	Victoria Day – No classes

JUNE 2022

9 Thursday	Last day to discontinue from First Summer session courses*	
23 Thursday	Final Day of First Summer Session Classes	28 Teaching Days
27-28 (Mon-Tues)	Exams for First Summer Session	
30 Thursday	First Summer Session grades must be submitted to Registrar's Office by noon	

SECOND SUMMER SESSION 2022

JULY 2022

4 Monday	Second Summer Session classes begin
8 Friday	Last day to register late for Second Summer Session courses; last day to cancel registration for full refund; last day for changing courses or sections;

CALENDAR & CURRICULUM CHANGE

Motion #17

11 Monday	Final date to apply to graduate for Summer Semester for the September 15 th Meeting of Senate	
27 Wednesday	Last day to discontinue from Second Summer Session courses*	
AUGUST 2022		
10 Wednesday	Final Day of Second Summer Session Classes	28 Teaching Days
15-16 (Mon-Tues)	Exams for Second Summer Session courses	
22 Monday	Second Summer Session grades must be submitted to the Registrar's Office by noon	

*For courses that begin on the dates prior to the regularly scheduled Summer Session dates, and for regularly scheduled summer session courses, please contact the Registrar's Office for refund schedule.

**Should a final exam, scheduled within the exam period, be cancelled due to storm conditions or other unforeseen circumstances, the Registrar's Office will reschedule the exam. Cancelled exams will be rescheduled to the earliest possible date within the exam period (normally, this would occur at the end of the exam period to avoid other previously scheduled exams). Updates will be posted to the University website.

Rationale for Change: Implementation of new statutory holiday

Effective Term: IMMEDIATE

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: N/A

<i>Authorization</i>	<i>Date:</i>
Departmental Approval: N/A	N/A
Faculty/School Approval: N/A	N/A
Faculty Dean's Approval: N/A	N/A
Grad. Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

CALENDAR & CURRICULUM CHANGE

Motion #18

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

Faculty/School/Department: **Registrar's Office**

Department/Program(s)/Academic Regulations: **2021-2022 Academic Calendar Dates - AVC**

MOTION: To have the changes in the 2021-2022 Academic Calendar Dates for Veterinary Medicine Program approved as proposed.

1st Academic Semester (May-December 2021)
(~~67~~ 66 Teaching Days)

May 2021

3 Monday First day of Fourth Year Rotations – Summer Semester
24 Monday Victoria Day – no classes

August 2021

11 Wednesday Clinical Conference Begins
16 Monday First day of Fourth Year Rotations – Fall Semester
27 Friday First Year Orientation
30 Monday Pre-Clinical Classes begin

September 2021

6 Monday Labour Day – no classes
30 Thursday National Day for Truth and Reconciliation. No classes.

October 2021

11 Monday Thanksgiving Day – no classes

November 2021

11 Thursday Remembrance Day – no classes

December 2021

3 Friday Final Day of Fall Semester Classes
4-18 (Sat-Sat) Final Examinations
21 Tuesday End of First Semester. Course grades to be submitted to the Registrar's Office by noon on this date.
31 Friday Final date to apply to graduate

NOTE: The North American Veterinary Licensing Examination (NAVLE*) is available during a four week testing window in November-December. For further information, please refer to www.icva.net/navle

2nd Academic Semester (January-May 2022)
(70 Teaching Days)

January 2022

4 Tuesday First day of Fourth Year Rotations – Winter Semester
Pre-clinical Classes begin – Winter Semester

February 2022

17-18 (Thurs-Fri) Mid-semester break (except 4th year rotations)
21 Monday Islander Day. No classes

CALENDAR & CURRICULUM CHANGE

Motion #18

April 2022

14 Thursday	Final day of winter semester classes
15 Friday	Good Friday. No classes
16-30 (Sat-Sat)	Final Examinations
17 Sunday	Final day of Fourth year rotations
18 Monday	Easter Monday. No classes
27 Wednesday	End of second semester. Course grades for 4 th year students to be submitted to Registrar's Office by noon on this date.

May 2022

2 Monday	Course grades for 1 st , 2 nd , and 3 rd year students to be submitted to Registrar's Office by noon on this date.
	First day of Fourth Year Rotation – Summer Semester
10 Tuesday	Convocation

NOTE: The North American Veterinary Licensing Examination (NAVLE) dates are in April. Please refer to www.icva.net/navle

Rationale for Change: Implementation of new statutory holiday.

Effective Term: IMMEDIATE

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: Click here to enter text.

Authorization

Date:

Departmental Approval: N/A	N/A
Faculty/School Approval: N/A	N/A
Faculty Dean's Approval: N/A	N/A
Grad. Studies Dean's Approval: N/A	N/A
Registrar's Office Approval: Darcy McCardle	August 24, 2021

Form Version: September 2021

