

Minutes of the Fourth Meeting of Senate
Friday, January 19, 2018
3:00 – 5:00 pm
618 University Avenue

- Present:** A. Abd-El-Aziz (Chair), R. Bissessur, A. Braithwaite, B. Campbell, L. Chilton, D. Dahn, R. Gilmour, K. Gottschall-Pass, S. Myers (designate for N. Etkin), L. Hammell, L. Heider, A. Hsiao, G. Irvine, G. Jiwani, R. Kays, G. Keefe, , J. Krause, N. Kujundzic, S. Lee, G. Lindsay, R. MacDonald, A. MacFarlane, E. MacNeill, T. Mady, D. Moses, M. Murray, T. Nabuurs, J. Podger, R. Raiswell, C. Ryan, N. Saad, D. Sutton, C. Thorne, and G. Wedlake
- Regrets:** R. Morin Chasse, A. Khayyat, and B. O’Keefe
- Absent:** G. Conboy, M. Doyle, P. Drake, P. Foley, C. Kamunde, and M. Van den Heuvel
- Recorder:** D. MacLean, Administrative Assistant to Senate

President Alaa Abd-El-Aziz called the meeting to order at 3:05 p.m.

1. **Approval of Agenda**
MOTION (K. Gottschall-Pass/L. Chilton) to approve the agenda as presented. CARRIED

MEETING MOVED “IN CAMERA”

3. **Chancellor Search Committee Report**
7. c. **Honorary Degree Committee Report**
8. **Other Business – Canada Games 2023**

MEETING MOVED TO OPEN SESSION

2. **Approval of Minutes**
MOTION (L. Chilton/D. Dahn) to approve the minutes of November 24, 2017 as amended. CARRIED
4. **President’s Report**
President Abd-El-Aziz reminded senators of the \$2M donation received in December 2017 from Cavendish

Farms/Robert Irving to support the School of Sustainable Design Engineering. As well, a \$1 million gift from the estate of Ruth MacDonald to establish the Roderick Stirling MacDonald Scholarship Fund was received in early January. The President spoke to current enrollments with a comparison to enrollments at this time last year. Full-time enrollments are up by 1.8%. President Abd-El-Aziz thanked faculty and staff for their dedication and contribution in this regard.

5. **Student Life Initiatives Committee (Academic Plan) Update and Presentation**

Dean Juergen Krause provided a detailed power point presentation on the activities of the Student Life Initiatives Committee. A document entitled “UPEI Academic Plan Student Life Initiatives” was also provided to Senators for review. Dr. Robert Gilmour and Dean Krause co-chair this committee. After a number of meetings, the Committee’s recommendations were to:

- establish criteria for an on-line tool, a digital student hub, using Zendesk. This tool should be visually easy to navigate, be user friendly, be intuitive, be built by blocks/tiles, and be compatible with a variety of devices;
- address the need to educate students on academic integrity and academic support systems; and
- review and assess student satisfaction.

Marketing and Communications will be asked to build this guide into their website. Senators had a number of questions after which the following motion was proposed:

MOTION (J. Krause/T. Mady) to endorse the Student Life Initiatives Committee to continue to develop this tool with the assistance of the Marketing and Communications Department. CARRIED

6. **Search – University Librarian**

Dr. Robert Gilmour informed Senators that he would like to start the process for hiring a University Librarian and the following motion was proposed:

MOTION (R. Gilmour/R. MacDonald) that Senate initiate the procedures for choosing a University Librarian. CARRIED

7. **Senate Reports**

a. Academic Planning and Curriculum Committee Report

Dr. Robert Gilmour provided background information and motions on three new proposed programs, and after some discussion, the following motions were proposed:

MOTION (R. Gilmour/L. Hammell) that the new program “Doctor of Psychology” be approved in principle. CARRIED

MOTION (R. Gilmour/A. Hsiao) to approve in principle the new Interdisciplinary Doctoral Program (PhD) in Sustainable Design Engineering. CARRIED

MOTION (R. Gilmour/K. Gottschall-Pass) that the Professional Master of Actuarial Science be approved in principle. CARRIED

i. Third Curriculum Report

Registrar's Office

1) Motion (R. Gilmour/G. Keefe) to confirm the Academic Dates for 2018-2019 for the Veterinary Medicine Program.

(See details on the Curriculum Report Attached – Page6)

Faculty of Science

Physics Department

OMNIBUS Motion (R. Gilmour/D. Dahn) that motions 2-53 be approved as noted below :

2) That the pre-requisites for PHYS 2120 Electricity, Magnetism, and Circuits be changed to allow greater flexibility for Physics major and non-major students.

(See details on the Curriculum Report Attached – Page 6)

3) For Physics 2430 remove the prerequisite of BIO 1310, and add a recommendation that students have at least six semester hours of Biology prior to taking PHYS 2430.

(See details on the Curriculum Report Attached – Page 7)

4) That a Specialization in Medical and Biological Physics be created for Major in Physics

(See details on the Curriculum Report Attached – Page 8-9)

5) That a Specialization in Medical and Biological Physics be created for Honours in Physics.

(See details on the Curriculum Report Attached – Page 10-12)

6) That the name for the Minor in Biomedical Physics is changed to Minor in Medical and Biological Physics, and that the course options for the Minor are expanded to provide greater opportunity to students in more degree programs.

(See details on the Curriculum Report Attached – Page 13-14)

School of Mathematical and Computational Sciences

7) That the Common Breadth requirement for programs in the School of Mathematical and Computational Sciences be modified to remove the requirement that 6 credits be from Biology, Chemistry or Physics.

(See details on the Curriculum Report Attached – Page 15)

School of Sustainable Design Engineering

8) That ENGN 1520 (Engineering and the Biosphere) be deleted from the Academic Calendar.

(See details on the Curriculum Report Attached – Page 16)

9) That ENGN 1410 (Sustainability in Engineering Design) be approved as presented.

(See details on the Curriculum Report Attached – Page 17-18)

10) To change the prerequisites for ENGN 1220 - Engineering Analysis to include “Engineering 1310 must be completed or taken concurrently”, and to remove the prerequisites of Math 1910 and Physics 1110.

(See details on the Curriculum Report Attached – Page 19)

11) To change the prerequisites for ENGN 2120 - Geology for Engineers to include “admission to the Engineering Program or admission to the Environmental Studies Program” and to remove the prerequisite of Engineering 1520.

(See details on the Curriculum Report Attached – Page 20)

12) To change the prerequisites for ENGN 2210 - Engineering Projects I by removing the prerequisites of Engineering 1310, Engineering 1520, Physics 1120, Chemistry 1120, Statistics 2210 and Math 1920.

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

13) To change the prerequisites for ENGN 2250 - Materials Science by removing the prerequisites of Engineering 1220 and Math 2910 and adding the prerequisite of Math 1920.

(See details on the Curriculum Report Attached – Page 22)

14) To change the prerequisites for ENGN 2340 - Engineering Dynamics by removing the prerequisites of Engineering 1310 and Engineering 1520.

(See details on the Curriculum Report Attached – Page 23)

15) To change the prerequisites for ENGN 2350 - Kinematics and Dynamics of Machines by removing the prerequisite of Math 2910 and adding the prerequisite of Math 1920.

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

16) To change the prerequisites for ENGN 2420 - Fundamentals of Environmental Engineering to include the prerequisite of Chemistry 1120.

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

17) To change the prerequisites for ENGN 2430 - Engineering Economics to include “admission to the Engineering Program” and to remove the prerequisites of Engineering 1220, Engineering 1310, Engineering 1520 and Math 1920.

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

18) To change the prerequisites for ENGN 2520 - Fundamentals of Process Engineering by removing the Math 2910 prerequisite.

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

19) To change the prerequisites for ENGN 2610 - Thermo Fluids I by adding the prerequisite courses Chemistry 1120 and Math 1920 and removing the prerequisite courses Engineering 1220, Engineering 1310, Engineering 1520 and Math 2910.

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

20) To change the prerequisites for ENGN 2810 - Electric Circuits I by removing the prerequisites of Engineering 1220, Engineering 1310 and Engineering 1520.

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

21) To change the prerequisites for ENGN 3220 - Engineering Measurements by removing the prerequisite of Engineering 3710 and adding the course prerequisites of Engineering 2810 and Math 3010.

(See details on the Curriculum Report Attached – Page 30)

22) To change the prerequisite for ENGN 3260 - Materials, Mechanics and Manufacturing by removing the prerequisite Engineering 3710 and adding the prerequisite Engineering 2310.

(See details on the Curriculum Report Attached – Page 31)

23) To change the prerequisites for ENGN 3270 - Machines and Automatic Control by adding Engineering 2810 as a prerequisite.

(See details on the Curriculum Report Attached – Page 32)

24) To change the prerequisites for ENGN 3370 - Mechatronic System Integration and Interface Design to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 33)

25) To change the prerequisites for ENGN 3380 - Real-time Embedded Systems to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 34)

26) To change the prerequisites for ENGN 3390 - Introduction to Mechatronic Computer-Aided Product Development, Modelling and Simulation to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 35)

27) To change the prerequisites for ENGN 3450 - Wind and Water Power to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 36)

28) To change the prerequisites for ENGN 3460 - Solar Energy and Electricity Storage to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 37)

29) To change the prerequisites for ENGN 3490 - Chemical Energy Conversion to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 38)

30) To change the prerequisites for ENGN 3570 - Engineering Applications of Biological Materials to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 39)

31) To change the prerequisites for ENGN 3580 - Soil Mechanics to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

32) To change the prerequisites for ENGN 3630 - Thermofluids III with Heat Transfer by removing the prerequisite of Engineering 3220 and adding Engineering 2610 as a prerequisite course.

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

33) To change the prerequisites for ENGN 3710 - Project-based Professional Practice I by changing the 70% grade requirement in ENGN 2220 to 60% and removing the Math 2610 and Math 3010 course prerequisites.

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

34) To change the prerequisites for ENGN 3810 - Systems Engineering by removing the Engineering 3710 course prerequisite and adding Engineering 2220 as a course prerequisite.

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

35) To change the prerequisites for ENGN 3820 - System Dynamics Simulation by adding Engineering 3220 as a course prerequisite.

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

36) To change the prerequisites for ENGN 3850 - Engineering Applications of Numerical Methods by removing the “admission to the Engineering Program” requirement and adding Engineering 1310 as a course prerequisite.

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

37) To change the prerequisites for ENGN 4210 - Facilitated Study and Experimental Practice by removing the Engineering 3720 course prerequisite and adding the prerequisite that Engineering 4710 must be taken concurrently.

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

38) To change the prerequisites for ENGN 4230 - Technology Management and Entrepreneurship by removing the course prerequisite Engineering 3720 and adding the prerequisite that Engineering 3710 must be completed or taken concurrently.

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

39) To change the prerequisites for ENGN 4310 - Advanced Fabrication Techniques and

Computer-Integrated Manufacturing to include, in addition to Engineering 3260, that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

40) To change the prerequisites for ENGN 4320 - Control System Design to include, in addition to Engineering 3820, that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 49)

41) To change the prerequisites for ENGN 4350 - Advanced Robotic Dynamics and Control to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 50)

42) To change the prerequisites of ENGN 4370 - Fluid Power Control to include that, in addition to Engineering 3820, any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

(See details on the Curriculum Report Attached – Page 51)

43) To change the prerequisites for ENGN 4410 - Macro Energy Systems to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

44) To change the prerequisites for ENGN 4440 - Advanced Energy Storage to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

45) To change the prerequisites for ENGN 4450 - Fluid Loads on Energy Structures to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

46) To change the prerequisites for ENGN 4470 - Micro Grids to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

47) To change the prerequisites for ENGN 4510 - Geoinformatics in Bioresources to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

48) To change the prerequisites for ENGN 4530 - Fundamentals of Agricultural Machinery to

include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

49) To change the prerequisites for ENGN 4550 - Chemical and Biological Processes to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

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

50) To change the prerequisites for ENGN 4710 - Project-based Professional Practice III by adding that Engineering 3260 must be completed or taken concurrently and that Engineering 4210 must be taken concurrently.

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

51) To revise the admission requirements in the School of Sustainable Design Engineering by deleting, in its entirety, the section entitled “Applicants from Dalhousie Associated Universities”.

(See details on the Curriculum Report Attached – Page 60-61)

52) To revise the calendar entry for the Bachelor of Science in Sustainable Design Engineering degree program as presented to reflect the following: 1) revisions to faculty members; 2) termination of the degree transfer option with Dalhousie University and the University of New Brunswick; 3) inclusion of lists of technical and focus area electives; 4) changes to prerequisites for focus area electives; and 5) other housekeeping and clarification items.

(See details on the Curriculum Report Attached – Page 62-68)

53) The addition of the elective course ENGN 4330 - Innovations in Biomedical Engineering as a cross-listed course option for graduate students in the Master of Science in Sustainable Design Engineering program.

(See details on the Curriculum Report Attached – Page 69)

Faculty of Veterinary Medicine

Biomedical Sciences

OMNIBUS Motion (R. Gilmour/G. Keefe) that motions 54-71 be approved as noted below :

54) That the new course, VBS 4388 Acute Wildlife Medicine and Care, be approved as proposed.

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

55) That the new course, VBS 4389 Laboratory Animal Theriogenology, be approved as proposed.

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

56) That the new course, VBS 4390 Large Animal Clinical Anatomy, be approved as proposed.

Companion Animals

57) That the new course, VCA 4030 Clinics in Companion Animal Neurology, be approved as

proposed.

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

58) That the new course, VCA 4040 Clinics in Companion Animal Oncology, be approved as proposed.

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

59) That the new course, VCA 4050 Community Practice II, be approved as proposed.

(See details on the Curriculum Report Attached – Page 80-81)

Health Management

60) That a new course, VHM 4070 Production Health of Warm Water Shrimp and Fish, be approved as proposed.

(See details on the Curriculum Report Attached – Page 82-83)

61) That a new course, VHM 4080 Clinics in Ruminant Medicine and Surgery - University of Montreal, Faculty of Veterinary Medicine, be approved as proposed.

(See details on the Curriculum Report Attached – Page 84-85)

62) That a new course, VHM 4090 Topics in Veterinary Acupuncture – Equine, be approved as proposed.

(See details on the Curriculum Report Attached – Page 86-87)

63) That a new course, VHM 4140 Small Animal Theriogenology, be approved as proposed.

(See details on the Curriculum Report Attached – Page 88-89)

64) That a new course, VHM 4150 Clinics in Bovine Theriogenology, be approved as proposed.

(See details on the Curriculum Report Attached – Page 90-91)

65) That a new course, VHM 4160 Topics in Veterinary Acupuncture – Small Animal, be approved as proposed.

(See details on the Curriculum Report Attached – Page 92-93)

Pathology and Microbiology

66) That the new course, VPM 4120 Diagnostic Veterinary Virology, be approved as proposed.

(See details on the Curriculum Report Attached – Page 94-95)

67) That the new course, VPM 4130 Wildlife Health, be approved as proposed.

(See details on the Curriculum Report Attached – Page 96-97)

68) That the new course, VPM 4180 Chinook Project, be approved as proposed.

(See details on the Curriculum Report Attached – Page 98-99)

Companion Animals

69) That the course description change for VCA 4220, Clinical Nutrition in Companion Animals, be approved as proposed.

(See details on the Curriculum Report Attached – Page 100)

Health Management

70) That the pre-requisite change for VHM 4820 Veterinary Acupuncture, be approved as proposed.

(See details on the Curriculum Report Attached – Page 101)

71) That the course title and pre-requisite change for VHM 4840 Veterinary Chiropractic Techniques be approved as proposed.

(See details on the Curriculum Report Attached – Page 102)

GRADUATE PROGRAM

Master of Arts – Island Studies

OMNIBUS Motion (R. Gilmour/E. MacNeil) that motions 72-80 be approved as noted below :

72) That a new course entitled Communications Management and Island Issues (IST 6200) be approved as proposed.

(See details on the Curriculum Report Attached – Page 103-104)

73) That a new course entitled Theory and Practice of Island Research I (IST 6210) be approved as proposed.

(See details on the Curriculum Report Attached – Page 105-106)

74) That a new course entitled Theory and Practice of Island Research II (IST 6220) be approved as proposed.

(See details on the Curriculum Report Attached – Page 107-108)

75) That a new course entitled Islands and Tourism (IST 6230) be approved as proposed.

(See details on the Curriculum Report Attached – Page 109-110)

76) That a new course entitled Approaches to the Management of Island Tourism (IST 6240) be approved as proposed.

(See details on the Curriculum Report Attached – Page 111-112)

77) That a new course entitled Sustainability for Small Islands (IST 6250) be approved as proposed.

(See details on the Curriculum Report Attached – Page 113-114)

78) That a new course entitled Blue/Green Development Strategies for Small Islands (IST 6260) be approved as proposed.

(See details on the Curriculum Report Attached – Page 115-116)

79) That a new course entitled Subnational Island Jurisdictions (IST 6270) be approved as proposed.

(See details on the Curriculum Report Attached – Page 117-118)

80) To approve the following calendar entry change for the Master of Arts Island Studies program to include thesis and course based options.

(See details on the Curriculum Report Attached – Page 119-131))

ii) International Program Update

a) Masters in Global Affairs – King Juan Carlos University, Madrid, Spain

Dr. Gilmour asked Dr. Larry Hammell to provide an update to Senators on this program. It was initially brought to Senate and Senate endorsed the University's exploration of a joint or dual degree as proposed by KJC University in Spain. President Abd-El-Aziz informed Senators that he's going to Madrid and has been asked to provide a keynote presentation. He will be meeting with the University representatives in Madrid to develop this joint/dual degree. More details will come after the visit in February. After some discussion, and the following motion was proposed:

MOTION (L. Hammell/G. Jiwani) that Senate endorse that the School of Graduate Studies establish the joint/dual degree of Masters in Global Affairs with the King Juan Carlos University in Madrid, Spain. CARRIED

b) Offering Business, Engineering, and Math & Computational Sciences Programs in Egypt

President Abd-El-Aziz informed Senators that we now have a formal agreement drafted. UPEI faculty will oversee these programs. We have also ensured that any disputes that occur have to be decided by PEI Law. President Abd-El-Aziz noted that any new programs are vetted through the Faculty Association.

The Associate Dean of School of Sustainable Design Engineering noted that the engineering faculty at University of Canada Egypt (UCE) must all be registered as professional engineers in Canada.

(In Canada, the licensing of professional engineers is regulated by the provinces and territories; therefore, all faculty members must be recognized by one of the 13 provincial/territorial associations; e.g., Engineers PEI.)

Dr. Gordon MacDonald, Associate Dean of Math and Computational Sciences was asked to also offer programs at UCE. The following motion was then proposed:

MOTION (J. Krause/N. Saad) that Senate endorse that the Faculty of Business and the Faculty of Science partnering with The Canadian University in Egypt to provide programs in Business,

Engineering, and Mathematics and Computational Sciences. CARRIED

8. Other Business

There was no other business.

9. Adjournment

Motion (N.Saad) that the meeting be adjourned at 4:55 p.m.

Respectfully submitted,

Donna Sutton
Secretary of Senate

Attachment: Third Curriculum Report – January 19, 2018



UNDERGRADUATE PROGRAMS

| | | | |
|---------|---|---|-------|
| Motions | REGISTRAR'S OFFICE | | Page |
| 1 | DVM Calendar Dates 2018-2019 | Calendar Entry Change | 3-4 |
| | FACULTY OF SCIENCE | | |
| | Summary of Motions 2-53 | | 5 |
| | Physics | | |
| 2 | PHYS 2120 | Pre-requisite Change | 6 |
| 3 | PHYS 2430 | Requirement and Pre-requisite Change | 7 |
| 4 | Major in Physics | Calendar Entry Change: New Specialization | 8-9 |
| 5 | Honours in Physics | Calendar Entry Change: New Specialization | 10-12 |
| 6 | Minor in Biomedical Physics | Calendar Entry Change: Name change and addition of course options | 13-14 |
| | School of Mathematical and Computational Sciences | | |
| 7 | Common Breadth Requirement | Calendar Entry Change | 15 |
| | School of Sustainable Design Engineering | | |
| 8 | ENGN 1520 | Course Deletion | 16 |
| 9 | ENGN 1410 | New Course Proposal | 17-18 |
| 10-50 | ENGN 1220, 2120, 2210, 2250, 2340, 2350, 2420, 2430, 2520, 2610, 2810, 3220, 3260, 3270, 3370, 3380, 3390, 3450, 3460, 3490, 3570, 3580, 3630, 3710, 3810, 3820, 3850, 4210, 4230, 4310, 4320, 4350, 4370, 4410, 4440, 4450, 4470, 4510, 4530, 4550, 4710 | Pre-requisite Changes | 19-59 |
| 51 | BSc in Sustainable Design Engineering | Calendar Entry Change: Admission Requirements | 60-61 |
| 52 | BSc in Sustainable Design Engineering | Calendar Entry Change | 62-68 |
| 53 | ENGN 4330 | Calendar Entry Change: Cross-listing | 69 |
| | FACULTY OF VETERINARY MEDICINE | | |
| | Biomedical Sciences | | |
| 54-56 | VBS 4388, 4389, 4390 | New Course Proposals | 70-75 |
| | Companion Animals | | |
| 57-59 | VCA 4030, 4040, 4050 | New Course Proposals | 76-81 |
| | Health Management | | |
| 60-65 | VHM 4070, 4080, 4090, 4140, 4150, 4160 | New Course Proposals | 82-93 |



| | | | |
|-------------------------|---|--|---------|
| 66-68 | Pathology & Microbiology VPM 4120, 4130, 4180 | New Course Proposals | 94-99 |
| 69 | Companion Animals VCA 4220 | Course Description Change | 100 |
| 70 | Health Management VHM 4820 | Pre-requisite Change | 101 |
| 71 | VHM 4840 | Course Title Change and Pre-requisite Change | 102 |
| GRADUATE PROGRAM | | | |
| 72-79 | Master of Arts – Island Studies IST 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270 | New Course Proposals | 103-118 |
| 80 | Program Changes | Calendar Entry Changes | 119-131 |

CALENDAR & CURRICULUM CHANGE

Motion # 1

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

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

Department/Program(s)/Academic Regulations: **Academic Calendar Dates 2018-2019**

MOTION: To confirm the Academic Dates for 2018-2019 for the Veterinary Medicine Program.

| Doctor of Veterinary Medicine – First Semester Dates May - December 2018 (67 Teaching Days) | |
|--|--|
| April | |
| 30 Monday | First day of Fourth Year Rotations - Summer Semester |
| May | |
| 21 Monday | <i>Victoria Day - no classes</i> |
| August | |
| 13 Monday | First day of Fourth Year Rotations - Fall Semester |
| 15 Wednesday | Clinical Conference begins |
| 24 Friday | First Year Orientation |
| 27 Monday | Classes begin |
| September | |
| 3 Monday | <i>Labour Day - no classes</i> |
| October | |
| 8 Monday | <i>Thanksgiving Day - no classes</i> |
| 31 Wednesday | Final date to apply to graduate |
| November | |
| 12 Monday | <i>Holiday in lieu of Remembrance Day - No classes</i> |
| 30 Friday | Final Day of Fall Semester Classes |
| December | |
| 1 - 15 (Sat-Sat) | Final Examinations |
| 19 Wednesday | End of First Semester. Course grades to be submitted to the Registrar's Office by noon on this date. |
| <p>NOTE: <i>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.nbec.org</i></p> | |

CALENDAR & CURRICULUM CHANGE

Motion # 1

| Doctor of Veterinary Medicine – Second Semester Dates January - May 2019 (69 Teaching Days) | |
|---|---|
| 3 Thursday | Pre-Clinical Classes begin - Winter Semester |
| 7 Monday | First day of Fourth Year Rotations - Winter Semester |
| February | |
| 14-15 (Thurs-Fri) | Mid-semester break (except 4 th year rotations) |
| 18 Monday | <i>Islander Day. No classes.</i> |
| April | |
| 12 Friday | Final day of winter semester classes. |
| 13 –27 (Sat-Sat) | Final Exams |
| 19 Friday | <i>Good Friday. No examinations</i> |
| 22 Monday | <i>Easter Monday. No examinations</i> |
| 22 Monday | Final day of fourth year rotations |
| 24 Wednesday | End of second semester. Course grades for 4 th year students to be submitted to Registrar's office by noon |
| 29 Monday | First day of Fourth Year Rotation – Summer Semester |
| May | |
| 1 Wednesday | Course grades for 1 st , 2 nd , and 3 rd year students to be submitted to Registrar's Office by noon on this date. |
| 11 Saturday | Convocation |
| <i>NOTE: The North American Veterinary Licensing Examination (NAVLE®) dates are in April. Please refer to www.nbec.org</i> | |

Rationale for Change: New academic year.

Effective Date: May 2018

Implications for Other Programs: N/A

Impact on Students Currently Enrolled: N/A

| Authorization | Date: |
|---|--------------------|
| Departmental Approval: N/A | N/A |
| Faculty/School Approval: N/A | N/A |
| Dean's Approval: Dr. Greg Keefe | September 26, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

SUMMARY OF MOTIONS 2-53

Summary of Calendar & Curriculum Changes for the Faculty of Science

As of November 10, 2017

Department of Physics

- The removal of PHYS 2820 as a pre-requisite for PHYS 2120 Electricity, Magnetism, and Circuits, and the addition of MATH 2910 AND PHYS 2010 OR PHYS 2210, to allow greater flexibility for Physics majors and non-major students.
- The removal of the prerequisite of BIO 1310 and the addition of a recommendation that students have at least six semester hours of Biology prior to taking PHYS 2430 Physics of the Human Body.
- The creation of a specialization in “Medical and Biological Physics” for majors, honours and minors.

School of Mathematical and Computational Sciences

- That the Common Breadth requirement for programs in the School of Mathematical and Computational Sciences be modified to remove the requirement that 6 credit hours be from Biology, Chemistry or Physics.

School of Sustainable Design Engineering – Undergraduate Program

- The deletion of ENGN 1520 Engineering and the Biosphere.
- The creation of ENGN 1410 Sustainability in Engineering Design.
- Pre-requisite additions/changes to ENGN 1220, 2120, 2210, 2250, 2340, 2350, 2420, 2430, 2520, 2610, 2810, 3220, 3260, 3270, 3370, 3380, 3390, 3450, 3460, 3490, 3570, 3580, 3630, 3710, 3810, 3820, 3850, 4210, 4230, 4310, 4320, 4350, 4370, 4410, 4440, 4450, 4470, 4510, 4530, 4550, 4710
- To revise the admission requirements in the School of Sustainable Design Engineering by deleting, in its entirety, the section entitled “Applicants from Dalhousie Associated Universities”.
- To revise the calendar entry for the Bachelor of Science in Sustainable Design Engineering degree program to reflect the following: 1) revisions to faculty members; 2) termination of the degree transfer option with Dalhousie University and the University of New Brunswick; 3) inclusion of lists of technical and focus area electives; 4) changes to prerequisites for focus area electives; and 5) other housekeeping and clarification items.

School of Sustainable Design Engineering – Graduate Program

- The addition of the elective course ENGN 4330 Innovations in Biomedical Engineering as a cross-listed course option for graduate students in the Master of Science in Sustainable Design Engineering program

CALENDAR & CURRICULUM CHANGE

Motion #2

Revision is for a: Pre-requisite Addition/Change

Faculty/School/Department: **Science**

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

MOTION: That the pre-requisites for PHYS 2120 Electricity, Magnetism, and Circuits be changed to allow greater flexibility for Physics major and non-major students.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>212 ELECTRICITY, MAGNETISM, AND CIRCUITS</p> <p>Topics include electric field and potential; magnetic field; electromagnetic induction; integral formulations of Gauss' Law, Ampere's Law and Faraday's Law, direct-current and alternating-current circuits; resistance, capacitance, inductance and impedance; frequency response of AC circuits; and electrical measurements. Three hours lecture, three hours laboratory per week</p> <p>Requisites: Physics 2010 - Must be completed prior to taking this course. Physics 2820 - Must be taken either prior to or at the same time as this course. Physics 2120L - Must be taken at the same time as this course.</p> | <p>2120 ELECTRICITY, MAGNETISM, AND CIRCUITS</p> <p>Topics include electric field and potential; magnetic field; electromagnetic induction; integral formulations of Gauss' Law, Ampere's Law and Faraday's Law, direct-current and alternating-current circuits; resistance, capacitance, inductance and impedance; frequency response of AC circuits; and electrical measurements. Three hours lecture, three hours laboratory per week</p> <p>Requisites: <u>Mathematics 2910, and Physics 2010 or Physics 2210; or permission of the instructor</u> - Must be completed prior to taking this course. Physics 2820 - Must be taken either prior to or at the same time as this course. Physics 2120L - Must be taken at the same time as this course.</p> |

Rationale for Change: The current prerequisites are unnecessarily restrictive. Very little material from Phys 2820 (Mathematical Physics) is used in Phys 2120, so Math 2910 (which is a prerequisite for Phys 2820) is adequate as a Mathematics prerequisite. Either one of the first-semester core courses in the Physics Major (Phys 2010 or 2210) would give students enough previous experience with physics at the second-year level. By making the prerequisites more flexible, the course will be open to more students, especially those doing a Minor in Physics

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None, other than opening the course to more students

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: William Whelan | October 17, 2017 |
| Faculty/School Approval: Science Council | November 9, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | November 9, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #3

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics/Major, Honors, Minor**

MOTION: For Physics 2430 remove the prerequisite of BIO 1310, and add a recommendation that students have at least six semester hours of Biology prior to taking PHYS 2430.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>2430 (formerly 3310) PHYSICS OF THE HUMAN BODY This course provides students with an introduction to the physics of the human body. Physics concepts such as mechanics, energy, work, fluid statics and dynamics, sound, optics, electricity, and magnetism will be applied to better understand the functioning of the human body. PREREQUISITE: Biology 1310, and Physics 1120 or Physics 1220. Otherwise, permission of the instructor is required Three hours lecture per week</p> | <p><u>Revised</u></p> <p>2430 (formerly 3310) PHYSICS OF THE HUMAN BODY This course provides students with an introduction to the physics of the human body. Physics concepts such as mechanics, energy, work, fluid statics and dynamics, sound, optics, electricity, and magnetism will be applied to better understand the functioning of the human body. PREREQUISITE: Biology 1310, and Physics 1120 or Physics 1220. Otherwise, permission of the instructor is required. <u>It is highly recommended that at least six semester hours of credit in biology be completed prior to taking this course.</u> Three hours lecture per week</p> |

Rationale for Change: Removes inadvertent barrier to students wanting to register for the course due to several different 100-level biology course options.

Effective Date: May 2018

Implications for Other Programs: No adverse effects. On other hand, may allow interested students in other programs improved access.

Impact on Students Currently Enrolled: Improves access to course.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. William Whelan | October 17, 2017 |
| Faculty/School Approval: Science Council | November 9, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | November 9, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #4

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

Faculty/School/Department: **Science**

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

MOTION: That a Specialization in Medical and Biological Physics be created for Major in Physics

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>Students who intend to major in Physics are advised to consult the Department before registration. The normal University requirements must be met in addition to the Departmental requirements listed below. In exceptional cases, courses may be taken in a different sequence provided that the pertinent prerequisites are fulfilled or permission is granted by the Department.</p> <p>First Year</p> <ul style="list-style-type: none"> • Physics 1110-1120 • Mathematics 1910-1920 • Chemistry 1110-1120 • Computer Science 1910 OR Engineering 1310) • Electives (Biology 1310-1320 are highly recommended) (9 semester hours) <p>Second Year</p> <ul style="list-style-type: none"> • Physics 2010 • Physics 2020 • Physics 2120 • Physics 2210 • Physics 2820 • Mathematics 2610 • Mathematics 2910 • Electives (9 semester hours) <p>Third and Fourth Years</p> <ul style="list-style-type: none"> • Physics 3120 • Physics 3220 • Physics 3720 • Physics 4410 OR Physics 4430 • Physics—Four additional Physics courses taken at the 300 level or above, but at least one must be above the 300 level. (12 semester hours) • Electives (Mathematics 3010 is highly recommended) (33 semester hours) | <p>Students who intend to major in Physics are advised to consult the Department before registration. The normal University requirements must be met in addition to the Departmental requirements listed below. In exceptional cases, courses may be taken in a different sequence provided that the pertinent prerequisites are fulfilled or permission is granted by the Department.</p> <p>First Year</p> <ul style="list-style-type: none"> • Physics 1110-1120 • Mathematics 1910-1920 • Chemistry 1110-1120 • Computer Science 1910 OR Engineering 1310) • Electives (Biology 1310-1320 are highly recommended) (9 semester hours) <p>Second Year</p> <ul style="list-style-type: none"> • Physics 2010 • Physics 2020 • Physics 2120 • Physics 2210 • Physics 2820 • Mathematics 2610 • Mathematics 2910 • Electives (9 semester hours) <p>Third and Fourth Years</p> <ul style="list-style-type: none"> • Physics 3120 • Physics 3220 • Physics 3720 • Physics 4410 OR Physics 4430 • Physics—Four additional Physics courses taken at the 300 level or above, but at least one must be above the 300 level. (12 semester hours) • Electives (Mathematics 3010 is highly recommended) (33 semester hours) <p><u>Specialization in Medical and Biological Physics</u> <u>Students can specialize in Medical and Biological Physics within the Major In Physics program.</u></p> <p><u>First Year</u></p> <ul style="list-style-type: none"> • <u>Physics 1110-1120</u> |

CALENDAR & CURRICULUM CHANGE

Motion #4

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| | <ul style="list-style-type: none"> • <u>Mathematics 1910-1920</u> • <u>Chemistry 1110-1120</u> • <u>Computer Science 1910 OR Engineering 1310)</u> • <u>Biology 1210-1230 OR Biology 1310-1320</u> • <u>Electives (3 semester hours)</u> <p><u>Second Year</u></p> <ul style="list-style-type: none"> • <u>Physics 2010</u> • <u>Physics 2020</u> • <u>Physics 2120</u> • <u>Physics 2210</u> • <u>Physics 2430</u> • <u>Physics 2820</u> • <u>Mathematics 2610</u> • <u>Mathematics 2910</u> • <u>Electives (6 semester hours)</u> <p><u>Third and Fourth Years</u></p> <ul style="list-style-type: none"> • <u>Physics 3120</u> • <u>Physics 3220</u> • <u>Physics 3420</u> • <u>Physics 3520</u> • <u>Physics 3720</u> • <u>Physics 3910</u> • <u>Physics 4410 OR Physics 4430</u> • <u>Physics—One additional Physics course taken at the 400 level. (3 semester hours)</u> • <u>Electives (Biology 3530 and Biology 4010 are highly recommended. Mathematics 3010 is highly recommended) (33 semester hours)</u> |

Rationale for Change: Clarification on suite of courses which are advantageous to students with an interest in Medical and Biological Physics.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Clarification on suite of courses which are advantageous to students with an interest in Medical and Biological Physics.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. William Whelan | October 17, 2017 |
| Faculty/School Approval: Science Council | November 9, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | November 10, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #5

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

Faculty/School/Department: **Science**

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

MOTION: That a Specialization in Medical and Biological Physics be created for Honours in Physics.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>REQUIREMENTS FOR HONOURS IN PHYSICS The Honours program in Physics is intended to provide research experience at the undergraduate level. It is designed for students who are interested in continuing their studies at the graduate level in Physics or related fields, or who are planning careers where research experience would be an asset. The Honours program comprises a total of 126 semester hours of course credit, including a research project worth 12 semester hours. A total of at least 60 semester hours of Physics is required (16 courses plus project). The normal University requirements must be met in addition to the Departmental requirements listed below. Biology 1310-1320 are highly recommended electives.</p> <p>First Year</p> <ul style="list-style-type: none"> • Physics 1110-1120 • Mathematics 1910-1920 • Computer Science 1910 OR Engineering 1310 • Chemistry 1110-1120 • Electives (Biology 1310-1320 are highly recommended) (9 semester hours) <p>Second Year</p> <ul style="list-style-type: none"> • Physics 2010 • Physics 2020 • Physics 2120 • Physics 2210 • Physics 2820 • Mathematics 2610 • Mathematics 2910 • Electives (9 semester hours) <p>Third and Fourth Years</p> <ul style="list-style-type: none"> • Physics 3010 • Physics 3120 • Physics 3220 • Physics 3720 | <p>REQUIREMENTS FOR HONOURS IN PHYSICS The Honours program in Physics is intended to provide research experience at the undergraduate level. It is designed for students who are interested in continuing their studies at the graduate level in Physics or related fields, or who are planning careers where research experience would be an asset. The Honours program comprises a total of 126 semester hours of course credit, including a research project worth 12 semester hours. A total of at least 60 semester hours of Physics is required (16 courses plus project). The normal University requirements must be met in addition to the Departmental requirements listed below. Biology 1310-1320 are highly recommended electives.</p> <p>First Year</p> <ul style="list-style-type: none"> • Physics 1110-1120 • Mathematics 1910-1920 • Computer Science 1910 OR Engineering 1310 • Chemistry 1110-1120 • Electives (Biology 1310-1320 are highly recommended) (9 semester hours) <p>Second Year</p> <ul style="list-style-type: none"> • Physics 2010 • Physics 2020 • Physics 2120 • Physics 2210 • Physics 2820 • Mathematics 2610 • Mathematics 2910 • Electives (9 semester hours) <p>Third and Fourth Years</p> <ul style="list-style-type: none"> • Physics 3010 • Physics 3120 • Physics 3220 • Physics 3720 |

CALENDAR & CURRICULUM CHANGE

Motion #5

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <ul style="list-style-type: none"> • Physics 4020 • Physics 4120 • Physics 4210 • Physics 4410 OR Physics 4430 • Physics 4900 • Mathematics 3010 • Mathematics 3310, 4710, or 4720 • Electives, at least one of which must be an additional Physics course at the 300 level or above (21 semester hours) <p>ENTRANCE REQUIREMENTS For admission to the program, students must normally have a minimum average of 70% in all previous courses and a minimum average of 75% in all previous Physics courses.</p> <p>Acceptance will be contingent upon the student finding a project supervisor, and the Department's assessment of the student's suitability for the program. Students interested in doing Honours should consult the Department Chair as early as possible, normally before the beginning of the student's third year, and no later than January 31 of the third year. Before registering for Physics 4900, the student must have been accepted into the Honours program, and the project topic must be approved by the Department.</p> <p>To graduate with Honours in Physics, the student must maintain a minimum average of 75% in all Physics courses combined. Students must also maintain a minimum overall average of 70% in each of the four years of study.</p> | <ul style="list-style-type: none"> • Physics 4020 • Physics 4120 • Physics 4210 • Physics 4410 OR Physics 4430 • Physics 4900 • Mathematics 3010 • Mathematics 3310, 4710, or 4720 • Electives, at least one of which must be an additional Physics course at the 300 level or above (21 semester hours) <p>ENTRANCE REQUIREMENTS For admission to the program, students must normally have a minimum average of 70% in all previous courses and a minimum average of 75% in all previous Physics courses.</p> <p>Acceptance will be contingent upon the student finding a project supervisor, and the Department's assessment of the student's suitability for the program. Students interested in doing Honours should consult the Department Chair as early as possible, normally before the beginning of the student's third year, and no later than January 31 of the third year. Before registering for Physics 4900, the student must have been accepted into the Honours program, and the project topic must be approved by the Department.</p> <p>To graduate with Honours in Physics, the student must maintain a minimum average of 75% in all Physics courses combined. Students must also maintain a minimum overall average of 70% in each of the four years of study.</p> <p><u>Specialization in Medical and Biological Physics</u> <u>Students can specialize in Medical and Biological Physics within the Honours in Physics program.</u></p> <p><u>First Year</u></p> <ul style="list-style-type: none"> • <u>Physics 1110-1120</u> • <u>Mathematics 1910-1920</u> • <u>Chemistry 1110-1120</u> • <u>Computer Science 1910 OR Engineering 1310)</u> • <u>Biology 1210-1230 OR Biology 1310-1320</u> • <u>Electives (3 semester hours)</u> <p><u>Second Year</u></p> <ul style="list-style-type: none"> • <u>Physics 2010</u> • <u>Physics 2020</u> |

CALENDAR & CURRICULUM CHANGE

Motion #5

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| | <ul style="list-style-type: none"> • <u>Physics 2120</u> • <u>Physics 2210</u> • <u>Physics 2430</u> • <u>Physics 2820</u> • <u>Mathematics 2610</u> • <u>Mathematics 2910</u> • <u>Electives (6 semester hours)</u> <p><u>Third and Fourth Years</u></p> <ul style="list-style-type: none"> • <u>Physics 3010</u> • <u>Physics 3120</u> • <u>Physics 3220</u> • <u>Physics 3420</u> • <u>Physics 3520</u> • <u>Physics 3720</u> • <u>Physics 3910</u> • <u>Physics 4020</u> • <u>Physics 4120</u> • <u>Physics 4210</u> • <u>Physics 4410 OR Physics 4430</u> • <u>Physics 4900</u> • <u>Mathematics 3010</u> • <u>Mathematics 3310, 4710, or 4720</u> • <u>Electives, at least one of which must be an additional Physics course at the 300 level or above (Biology 3530 and Biology 4010 are highly recommended, if Biology 121-123 NOT taken.) (12 semester hours)</u> <p><u>The honours research project will be relevant to Medical or Biological physics.</u></p> |

Rationale for Change: Clarification on suite of courses which are advantageous to students with an interest in Biomedical Physics.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Clarification on suite of courses which are advantageous to students with an interest in Biomedical Physics.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. William Whelan | October 17, 2017 |
| Faculty/School Approval: Science Council | November 9, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | November 9, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #6

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **Physics/Minor in Physics and Minor in Biomedical Physics**

MOTION: That the name for the Minor in Biomedical Physics be changed to Minor in Medical and Biological Physics, and that the course options for the Minor be expanded to provide greater opportunity to students in more degree programs.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p><u>Reproduction</u></p> <p>MINOR IN BIOMEDICAL PHYSICS Students in the Minor Program in Biomedical Physics must complete a total of 21 semester hours of course credit, including these 3 core Physics courses:</p> <p>General Biomedical Physics for the Life Sciences:</p> <ul style="list-style-type: none"> • Physics 1210 Physics for Life Sciences I – 3 hours • Physics 1220 Physics for Life Sciences II – 3 hours • Physics 2220 Modern Physics for Life Sciences – 3 hours <p>In addition, four electives (12 semester hours) must be chosen from the following suite of Physics and Biology courses:</p> <p>Foundations of Biomedical Physics:</p> <ul style="list-style-type: none"> • Physics 2430 (formerly 3310) Physics of the Human Body – 3 hours • Physics 3420 Introduction to Biomedical Physics – 3 hours • Physics 3910 Radiation Detection and Measurement – 3 hours • Physics 3520 (formerly 4420) Biomedical Imaging – 3 hours • Biology 3530 Human Anatomy and Histology | <p><u>Revised</u></p> <p><u>MINOR IN MEDICAL AND BIOLOGICAL PHYSICS</u> <u>Students in the Minor in Medical and Biological Physics</u> must complete a total of 21 semester hours of course credit, including these 3 <u>4</u> core Physics courses:</p> <p>General Biomedical Physics for the Life Sciences:</p> <ul style="list-style-type: none"> • Physics 1210 Physics for Life Sciences I <u>or</u> <u>Physics 1110</u>– 3 hours • Physics 122 Physics for Life Sciences II <u>or</u> <u>Physics 1120</u>– 3 hours • Physics 2220 Modern Physics for Life Sciences <u>or</u> <u>Physics 2210 Modern Physics</u> – 3 hours • <u>Physics 2430 (formerly 3310) Physics of the Human Body</u> – 3 hours <p>In addition, four <u>three</u> electives (12 <u>9</u> semester hours) must be chosen from the following suite of Physics and Biology courses:</p> <p>Foundations of <u>Medical and Biological Physics</u>:</p> <ul style="list-style-type: none"> • <u>Physics 2420 Introduction to Biomechanics</u> – 3 hours • Physics 2430 (formerly 3310) Physics of the Human Body – 3 hours • Physics 3420 Introduction to Biomedical Physics – 3 hours • <u>Physics 3510 Advanced Biomechanics</u> – 3 hours |

CALENDAR & CURRICULUM CHANGE

Motion #6

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| – 3 hours <ul style="list-style-type: none"> • Biology 4010 Human Physiology & Pathophysiology – 3 hours | <ul style="list-style-type: none"> • Physics 3910 Radiation Detection and Measurement – 3 hours • Physics 3520 (formerly 442) Biomedical Imaging – 3 hours • Biology 3530 Human Anatomy and Histology – 3 hours • Biology 4010 Human Physiology & Pathophysiology – 3 hours • <u>Radiography 2310 Radiographic Physics – 3 hours (available only to students in the Radiography Program)</u> |

Rationale for Change: Allow Physics 1110 and Physics 1120 as equivalent substitutions for Physics 1210 and Physics 1220 since there are a number of potentially interested students who take the Physics 1110/1120 stream for their major program. Allow Physics 2210 as equivalent substitution for Physics 2220 since Physics 2220 is now only offered every second year. Include additional course options in related disciplines such as biomedical engineering, chemistry, radiography and kinesiology. These revisions will allow more scheduling flexibility, and inclusion of students not majoring in biology.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: More scheduling options/flexibility.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. William Whelan | October 17, 2017 |
| Faculty/School Approval: Science Council | November 9, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | November 9, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #7

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

Faculty/School/Department: **Science**

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

MOTION: That the Common Breadth requirement for programs in the School of Mathematical and Computational Sciences be modified to remove the requirement that 6 credits be from Biology, Chemistry or Physics.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>COMMON BREADTH REQUIREMENT Students must take at least 15 semester hours of credit in courses outside the School of Mathematical and Computational Sciences (excluding one of the UPEI courses listed above), and of these 15 semester hours of credit, at least 6 must be from Biology, Chemistry or Physics and at least 6 must be from outside the Faculty of Science.</p> | <p>COMMON BREADTH REQUIREMENT Students must take at least 15 semester hours of credit in courses outside the School of Mathematical and Computational Sciences (excluding one of the UPEI courses listed above), and of these 15 semester hours of credit, at least 6 must be from Biology, Chemistry or Physics and at least 6 must be from outside the Faculty of Science.</p> |

Rationale for Change: Specifying the Sciences of Chemistry, Biology and Physics from the many courses inside and outside the Faculty of Science that could be taken to ensure breadth doesn't seem equitable or reasonable considering that the programs in SMCS (Mathematics, Computer Science, Statistics, Analytics, Actuarial Science and Financial Mathematics) have connections to Chemistry, Biology and Physics, but also to Engineering, Economics, Business, and almost every discipline. In addition, we have a number of programs in SMCS which are very "course requirement intensive", with many course requirements from inside and outside SMCS. Reducing student flexibility further by imposing criteria on elective courses makes it difficult to design such programs and makes it difficult for students to fulfill all degree requirements in the allotted time.

Effective Date: September 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None, they will have the option of continuing under the old (pre 2018) breadth rules or adopting the new 2018 rules.

Authorization Date:

| | |
|---|-------------------|
| Departmental Approval: Gordon MacDonald, Associate Dean | October 18, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #8

Revision is for a: **Course Deletion**

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: That ENGN 1520 (Engineering and the Biosphere) be deleted from the Academic Calendar.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>152 (Formerly 151) ENGINEERING AND THE BIOSPHERE</p> <p>The course focuses on the relationship between living systems and the man-made environment as it applies to engineering design. The relevance of biology to industrial and engineering applications is emphasized. Laboratory sessions will make extensive use of field trips to local sites. This course includes a basic introduction to cell structure and function, microbiology and toxicology, nutrient cycles, communities and ecology as it relates to understanding the impacts of man-made systems and structures.</p> <p>PREREQUISITES: Admission to the Engineering Program</p> <p>Three lecture hours and three lab hours per week</p> | <p>152 (Formerly 151) ENGINEERING AND THE BIOSPHERE</p> <p>The course focuses on the relationship between living systems and the man-made environment as it applies to engineering design. The relevance of biology to industrial and engineering applications is emphasized. Laboratory sessions will make extensive use of field trips to local sites. This course includes a basic introduction to cell structure and function, microbiology and toxicology, nutrient cycles, communities and ecology as it relates to understanding the impacts of man-made systems and structures.</p> <p>PREREQUISITES: Admission to the Engineering Program</p> <p>Three lecture hours and three lab hours per week</p> |

Rationale for Change: This course has been offered in the past as part of our curriculum obligations to Dalhousie under our Degree Transfer Option. As we move away from this obligation, ENGN 1520 in its current content form is no longer entirely relevant to our degree in sustainable design engineering. It is proposed to be replaced by a new course ENGN 1410 (Sustainability in Engineering Design), being proposed separately.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Current students who have not yet taken ENGN 1520 and who intend to transfer to Dalhousie or the University of New Brunswick to complete their degree will be advised to take Biology 1310 (Introduction to Cell and Molecular Biology) instead. Biology 1310 is considered to be an acceptable substitute for ENGN 1520.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #9

Faculty/School: **Science**

Department/Program(s): **School of Sustainable Design Engineering**

MOTION: that ENGN 1410 (Sustainability in Engineering Design) be approved as presented.

| | |
|---------------------------|---|
| Course Number and Title | ENGN 1410 Sustainability in Engineering Design |
| Description | This course introduces the principles of sustainability in engineering design as they relate to the interactions among humans, living systems, the natural environment and the engineered world. Physical, chemical, biological, ecological, social, economic and life-cycle concepts, and their relevance to sustainable engineering design, are emphasized. |
| Cross-Listing | N/A |
| Prerequisite/Co-Requisite | Admission to the Engineering Program |
| Credit(s) | 3 |
| Notation | 3 hours of lecture and 3 hours of lab per week |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 100

Is there an Enrolment Cap: No

Rationale for New Course: The concepts and principles of sustainability are integral to our degree in sustainable design engineering. While curriculum content in this area is currently being delivered as part of our 8-course stream of design courses, this new course will provide students with a focused introduction to the subject matter in the Fall semester of Year 1 to set the foundation for subsequent learning in this area. This new course replaces an existing course (ENGN 1520) which will be deleted as a result.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Resources Required: Existing personnel and laboratory resources within the School of Sustainable Design Engineering.

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

Authorization Date:

| | |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



NEW COURSE PROPOSAL

Motion #9

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

ENGN 1410 Sustainability in Engineering Design

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

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - CRCnetBASE (231 titles on sustainability, of which we can access 55)
 - Access Engineering (73 titles on sustainability)
 - IEEE full text
 - ASME Full Text
 - Inspec database
 - Compendex database
- Subscription Dependencies (in interdisciplinary packages)
 - ScienceDirect
 - Proquest academic ebooks
 - Ebsco academic ebooks
 - Physical Space in Library (other than holdings, explain) n/a
- Library Administrative/Research Support
 - Engineering Liaison Librarian, Rosie Le Faive

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: __n/a_____ For each of _____ consecutive years
- Annual: _____n/a_____
 - Per-year percentage increase in annual: _____

Does the budget allocation for library resources in this proposal meet the requirement? **Existing budget meets the needs of this proposal. The current collection contains resources on sustainability selected for the Sustainable Design Engineering program.**

| | |
|--|------------------|
| Date Received by Liaison/Collections Librarian | 27 October 2017 |
| Name of Librarian to be Contacted for Questions | Rosie Le Faive |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

CALENDAR & CURRICULUM CHANGE

Motion #10

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 1220 - Engineering Analysis to include “Engineering 1310 must be completed or taken concurrently”, and to remove the prerequisites of Math 1910 and Physics 1110.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>122 ENGINEERING ANALYSIS PREREQUISITE: Engineering 121 with a grade of at least 60%, Math 191, and Physics 111 Three hours lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>122<u>0</u> ENGINEERING ANALYSIS PREREQUISITE: Engineering 121<u>0</u> with a grade of at least 60%. <u>Engineering 1310 must be completed or taken concurrently.</u> Math 191, and Physics 111 Three hours lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean’s Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean’s Approval: N/A | N/A |
| Registrar’s Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #11

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2120 - Geology for Engineers to include “admission to the Engineering Program or admission to the Environmental Studies Program” and to remove the prerequisite of Engineering 1520.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>Reproduction 212 GEOLOGY FOR ENGINEERS This course provides a basic overview of key geological processes and principles with emphasis on practical aspects of geology as they apply to engineering and related disciplines. Topics include rock types, rock formation, plate tectonics, glaciation, erosion, earth materials, geological mapping, stratigraphy and structural geology. An appreciation for ore forming processes, mineral resources, geothermal energy, environmental geology, and groundwater resources is also development. Laboratory activities focus on basic mineral and rock identification, and interpretation of topographic and geological maps. PREREQUISITE: Engineering 152 Three lecture hours and two lab hours per week</p> | <p>Revised 2120 GEOLOGY FOR ENGINEERS This course provides a basic overview of key geological processes and principles with emphasis on practical aspects of geology as they apply to engineering and related disciplines. Topics include rock types, rock formation, plate tectonics, glaciation, erosion, earth materials, geological mapping, stratigraphy and structural geology. An appreciation for ore forming processes, mineral resources, geothermal energy, environmental geology, and groundwater resources is also development. Laboratory activities focus on basic mineral and rock identification, and interpretation of topographic and geological maps. PREREQUISITE: <u>Admission to the Engineering Program or admission to the Environmental Studies Program</u> Engineering 152 Three lecture hours and two lab hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean’s Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Registrar’s Office Approval: N/A | N/A |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #12

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2210 - Engineering Projects I by removing the prerequisites of Engineering 1310, Engineering 1520, Physics 1120, Chemistry 1120, Statistics 2210 and Math 1920.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>221 ENGINEERING PROJECTS I PREREQUISITE: Engineering 122 with a grade of at least 60%, Engineering 131, Engineering 152, Physics 112, Chemistry 112, Statistics 221 and Math 192 Three hours lecture and three hours lab per week</p> | <p><u>Revised</u></p> <p>221<u>0</u> ENGINEERING PROJECTS I PREREQUISITE: Engineering 122<u>0</u> with a grade of at least 60% Engineering 131, Engineering 152, Physics 112, Chemistry 112, Statistics 221 and Math 192 Three hours lecture and three hours lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #13

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2250 - Materials Science by removing the prerequisites of Engineering 1220 and Math 2910 and adding the prerequisite of Math 1920.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>225 MATERIALS SCIENCE PREREQUISITE: Engineering 122, Chemistry 111 and Math 291 Three hours lecture and three hours lab per week</p> | <p><u>Revised</u></p> <p>2250 MATERIALS SCIENCE PREREQUISITE: Engineering 122, Chemistry 1110 and Math 1920 291 Three hours lecture and three hours lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/a |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #14

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2340 - Engineering Dynamics by removing the prerequisites of Engineering 1310 and Engineering 1520.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>234 ENGINEERING DYNAMICS PREREQUISITE: Engineering 122, Engineering 131, Engineering 152 and Math 192 Three hours lecture and three hours lab per week</p> | <p><u>Revised</u></p> <p>2340 ENGINEERING DYNAMICS PREREQUISITE: Engineering 1220, Engineering 131, Engineering 152 and Math 1920 Three hours lecture and three hours lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/a |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #15

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2350 - Kinematics and Dynamics of Machines by removing the prerequisite of Math 2910 and adding the prerequisite of Math 1920.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p><u>Reproduction</u></p> <p>235 KINEMATICS AND DYNAMICS OF MACHINES PREREQUISITE: Engineering 234 and Math 291 Three hours lecture and three hours of laboratory per week</p> | <p><u>Revised</u></p> <p>235<u>0</u> KINEMATICS AND DYNAMICS OF MACHINES PREREQUISITE: Engineering 234<u>0</u> and Math 291 <u>1920</u> Three hours lecture and three hours of laboratory per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #16

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2420 - Fundamentals of Environmental Engineering to include the prerequisite of Chemistry 1120.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>242 FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING PREREQUISITE: Engineering 152 Three hours of lecture and two hours of tutorial per week</p> | <p><u>Revised</u></p> <p>2420 FUNDAMENTALS OF ENVIRONMENTAL ENGINEERING PREREQUISITE: Engineering 1520 <u>and Chemistry 1120</u> Three hours of lecture and two hours of tutorial per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #17

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2430 - Engineering Economics to include “admission to the Engineering Program” and to remove the prerequisites of Engineering 1220, Engineering 1310, Engineering 1520 and Math 1920.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p><u>Reproduction</u></p> <p>243 ENGINEERING ECONOMICS PREREQUISITE: Engineering 122, Engineering 131, Engineering 152 and Math 192 Three hours lecture and three-hour tutorial per week</p> | <p><u>Revised</u></p> <p>2430 ENGINEERING ECONOMICS PREREQUISITE: <u>Admission to the Engineering Program</u>, Engineering 122, Engineering 131, Engineering 152 and Math 192 Three hours lecture and three-hour tutorial per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #18

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2520 - Fundamentals of Process Engineering by removing the Math 2910 prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>252 FUNDAMENTALS OF PROCESS ENGINEERING PREREQUISITE: Engineering 261 and Math 291 Three lecture hours and two tutorial hours per week</p> | <p><u>Revised</u></p> <p>2520 FUNDAMENTALS OF PROCESS ENGINEERING PREREQUISITE: Engineering 2610 and Math 291 Three lecture hours and two tutorial hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #19

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2610 - Thermo Fluids I by adding the prerequisite courses Chemistry 1120 and Math 1920 and removing the prerequisite courses Engineering 1220, Engineering 1310, Engineering 1520 and Math 2910.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>261 THERMO FLUIDS I PREREQUISITE: Engineering 122, Engineering 131 and Engineering 152. Math 291 must be completed or taken concurrently Three hours lecture and three lab hours per week</p> | <p><u>Revised</u></p> <p>261<u>0</u> THERMO FLUIDS I PREREQUISITE: <u>Chemistry 1120 and Math 1920</u> Engineering 122, Engineering 131 and Engineering 152. Math 291 must be completed or taken concurrently Three hours lecture and three lab hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/a |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #20

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 2810 - Electric Circuits I by removing the prerequisites of Engineering 1220, Engineering 1310 and Engineering 1520.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <u>Reproduction</u> | <u>Revised</u> |
| 281 ELECTRIC CIRCUITS I PREREQUISITE: Engineering 122, Engineering 131, Engineering 152, Math 192 and Physics 112 Three hours lecture and two hours tutorial per week | 281 <u>0</u> ELECTRIC CIRCUITS I PREREQUISITE: Engineering 122, Engineering 131, Engineering 152, Math 192 <u>0</u> and Physics 112 <u>0</u> Three hours lecture and two hours tutorial per week |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #21

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3220 - Engineering Measurements by removing the prerequisite of Engineering 3710 and adding the course prerequisites of Engineering 2810 and Math 3010.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>322 ENGINEERING MEASUREMENTS PREREQUISITE: Engineering 371 must be completed or taken concurrently Three hours lecture and three hours lab per week</p> | <p><u>Revised</u></p> <p>3220 ENGINEERING MEASUREMENTS PREREQUISITE: <u>Engineering 2810 and Math 3010</u> Engineering 371 must be completed or taken concurrently Three hours lecture and three hours lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #22

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisite for ENGN 3260 - Materials, Mechanics and Manufacturing by removing the prerequisite Engineering 3710 and adding the prerequisite Engineering 2310.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>326 MATERIALS, MECHANICS, AND MANUFACTURING PREREQUISITE: Engineering 371 must be completed or taken concurrently Three lecture hours and three lab hours per week</p> | <p><u>Revised</u></p> <p>3260 MATERIALS, MECHANICS, AND MANUFACTURING PREREQUISITE: <u>Engineering 2310</u> Engineering 371 must be completed or taken concurrently Three lecture hours and three lab hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #23

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3270 - Machines and Automatic Control by adding Engineering 2810 as a prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>327 MACHINES AND AUTOMATIC CONTROL PREREQUISITE: Engineering 322 Three lecture hours and three lab hours per week</p> | <p><u>Revised</u></p> <p>327<u>0</u> MACHINES AND AUTOMATIC CONTROL PREREQUISITE: <u>Engineering 2810 and Engineering 322<u>0</u></u> Three lecture hours and three lab hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #24

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3370 - Mechatronic System Integration and Interface Design to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>337 MECHATRONIC SYSTEM INTEGRATION AND INTERFACE DESIGN PREREQUISITES: Engineering 334 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>337<u>0</u> MECHATRONIC SYSTEM INTEGRATION AND INTERFACE DESIGN PREREQUISITES: Engineering 334<u>0</u>, <u>Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/a |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #25

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3380 - Real-time Embedded Systems to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| | |
|---|--|
| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
| <p><u>Reproduction</u></p> <p>338 REAL-TIME EMBEDDED SYSTEMS PREREQUISITES: Engineering 334 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>3380 REAL-TIME EMBEDDED SYSTEMS PREREQUISITES: Engineering 3340, <u>Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #26

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3390 - Introduction to Mechatronic Computer-Aided Product Development, Modelling and Simulation to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>339 MECHATRONICS COMPUTER-AIDED PRODUCT DEVELOPMENT, MODELLING, AND SIMULATION PREREQUISITES: Engineering 334 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>3390 MECHATRONICS COMPUTER-AIDED PRODUCT DEVELOPMENT, MODELLING, AND SIMULATION PREREQUISITES: Engineering 3340, <u>Engineering 3440</u>, <u>Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #27

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3450 - Wind and Water Power to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>345 WIND AND WATER POWER PREREQUISITES: Engineering 344 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>345<u>0</u> WIND AND WATER POWER PREREQUISITES: <u>Engineering 3340, Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #28

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3460 - Solar Energy and Electricity Storage to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>346 SOLAR ENERGY AND ELECTRICITY STORAGE PREREQUISITES: Engineering 344 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>3460 SOLAR ENERGY AND ELECTRICITY STORAGE PREREQUISITES: <u>Engineering 3340, Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #29

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3490 - Chemical Energy Conversion to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>349 CHEMICAL ENERGY CONVERSION. PREREQUISITES: Engineering 344 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>3490 CHEMICAL ENERGY CONVERSION PREREQUISITES: <u>Engineering 3340</u>, Engineering <u>3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #30

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3570 - Engineering Applications of Biological Materials to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>357 ENGINEERING APPLICATIONS OF BIOLOGICAL MATERIALS PREREQUISITES: Engineering 354 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>357<u>0</u> ENGINEERING APPLICATIONS OF BIOLOGICAL MATERIALS PREREQUISITES: <u>Engineering 3340, Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #31

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3580 - Soil Mechanics to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>358 SOIL MECHANICS PREREQUISITES: Engineering 354 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>3580 SOIL MECHANICS PREREQUISITES: <u>Engineering 3340, Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #32

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3630 - Thermofluids III with Heat Transfer by removing the prerequisite of Engineering 3220 and adding Engineering 2610 as a prerequisite course.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>363 THERMOFLUIDS III WITH HEAT TRANSFER PREREQUISITE: Engineering 322 Three lecture hours and three lab hours per week</p> | <p><u>Revised</u></p> <p>3630 THERMOFLUIDS III WITH HEAT TRANSFER PREREQUISITE: <u>Engineering 2610</u> Engineering 322 Three lecture hours and three lab hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #33

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3710 - Project-based Professional Practice I by changing the 70% grade requirement in ENGN 2220 to 60% and removing the Math 2610 and Math 3010 course prerequisites.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>371 PROJECT-BASED PROFESSIONAL PRACTICE I PREREQUISITE: Engineering 222 with a grade of at least 70%, Engineering 231, Engineering 234, Engineering 261, Engineering 281, Math 261 and Math 301 Six lecture hours and six lab hours per week</p> | <p><u>Revised</u></p> <p>3710 PROJECT-BASED PROFESSIONAL PRACTICE I PREREQUISITE: Engineering 2220 with a grade of at least 70% <u>60%</u>, Engineering 2310, Engineering 2340, Engineering 2610, <u>and</u> Engineering 2810, Math 261 and Math 301 Six lecture hours and six lab hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None

Impact on Students Currently Enrolled: See rationale.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #34

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3810 - Systems Engineering by removing the Engineering 3710 course prerequisite and adding Engineering 2220 as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>381 SYSTEMS ENGINEERING PREREQUISITE: Engineering 371 must be completed or taken concurrently Three hours lecture and three hours lab per week</p> | <p><u>Revised</u></p> <p>3810 SYSTEMS ENGINEERING PREREQUISITE: <u>Engineering 371</u> must be completed or taken concurrently <u>Engineering 2220</u> Three hours lecture and three hours lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #35

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3820 - System Dynamics Simulation by adding Engineering 3220 as a course prerequisite.

| | |
|---|--|
| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
| <p><u>Reproduction</u></p> <p>382 SYSTEM DYNAMICS WITH SIMULATION PREREQUISITE: Engineering 381 Three hours lecture and three hours lab per week</p> | <p><u>Revised</u></p> <p>3820 SYSTEM DYNAMICS WITH SIMULATION PREREQUISITE: <u>Engineering 3220 and Engineering 3810</u> Three hours lecture and three hours lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #36

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 3850 - Engineering Applications of Numerical Methods by removing the “admission to the Engineering Program” requirement and adding Engineering 1310 as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>385 ENGINEERING APPLICATIONS OF NUMERICAL METHODS PREREQUISITES: Admission to the Engineering Program and Math 301 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>385<u>0</u> ENGINEERING APPLICATIONS OF NUMERICAL METHODS PREREQUISITES: Admission to the Engineering Program <u>ENGN 1310</u> and Math 301<u>0</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #37

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4210 - Facilitated Study and Experimental Practice by removing the Engineering 3720 course prerequisite and adding the prerequisite that Engineering 4710 must be taken concurrently.

| | |
|---|---|
| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
| <p><u>Reproduction</u></p> <p>421 FACILITATED STUDY AND EXPERIMENTAL PRACTICE PREREQUISITE: Engineering 372 Three lecture hours per week</p> | <p><u>Revised</u></p> <p>4210 FACILITATED STUDY AND EXPERIMENTAL PRACTICE PREREQUISITE: <u>Engineering 372 Engineering 4710 must be taken concurrently.</u> Three lecture hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #38

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4230 - Technology Management and Entrepreneurship by removing the course prerequisite Engineering 3720 and adding the prerequisite that Engineering 3710 must be completed or taken concurrently.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>423 (Formerly 443) TECHNOLOGY MANAGEMENT & ENTREPRENEURSHIP PREREQUISITE: Engineering 372 Three lecture hours per week</p> | <p><u>Revised</u></p> <p>4230 (Formerly 443) TECHNOLOGY MANAGEMENT & ENTREPRENEURSHIP PREREQUISITE: Engineering 372<u>Engineering 3710</u> <u>must be completed or taken concurrently.</u> Three lecture hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #39

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4310 - Advanced Fabrication Techniques and Computer-Integrated Manufacturing to include, in addition to Engineering 3260, that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p><u>Reproduction</u></p> <p>431 ADVANCED FABRICATION TECHNIQUES AND COMPUTER-INTEGRATED MANUFACTURING PREREQUISITES: Engineering 326 and Engineering 334 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>4310 ADVANCED FABRICATION TECHNIQUES AND COMPUTER-INTEGRATED MANUFACTURING PREREQUISITES: Engineering 3260, and Engineering 3340; <u>Engineering 3440; or Engineering 3540;</u> and <u>Engineering 3260</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #40

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4320 - Control System Design to include, in addition to Engineering 3820, that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>432 CONTROL SYSTEM DESIGN PREREQUISITES: Engineering 334 and Engineering 382 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>4320 CONTROL SYSTEM DESIGN PREREQUISITES: Engineering 3340, <u>Engineering 3440, or Engineering 3540;</u> and Engineering 3820 Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #41

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4350 - Advanced Robotic Dynamics and Control to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p><u>Reproduction</u></p> <p>435 ADVANCED ROBOTIC DYNAMICS AND CONTROL PREREQUISITES: Engineering 334 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>4350 ADVANCED ROBOTIC DYNAMICS AND CONTROL PREREQUISITES: Engineering 3340, <u>Engineering 3440</u>, or <u>Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #42

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites of ENGN 4370 - Fluid Power Control to include that, in addition to Engineering 3820, any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>437 FLUID POWER CONTROL PREREQUISITES: Engineering 334 and Engineering 382 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>4370 FLUID POWER CONTROL PREREQUISITES: Engineering 3340, <u>Engineering 3440</u>, or <u>Engineering 3540</u>; and Engineering 3820 Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #43

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4410 - Macro Energy Systems to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| | |
|--|---|
| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
| <u>Reproduction</u> 441 MACRO ENERGY SYSTEMS PREREQUISITES: Engineering 344 | <u>Revised</u> 441 <u>0</u> MACRO ENERGY SYSTEMS PREREQUISITES: <u>Engineering 3340</u> , <u>Engineering 3440</u> , or <u>Engineering 3540</u> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #44

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4440 - Advanced Energy Storage to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p><u>Reproduction</u></p> <p>444 ADVANCED ENERGY STORAGE PREREQUISITES: Engineering 344 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>4440 ADVANCED ENERGY STORAGE PREREQUISITES: <u>Engineering 3340</u>, <u>Engineering 3440</u>, or <u>Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #45

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4450 - Fluid Loads on Energy Structures to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| | |
|--|--|
| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
| <p><u>Reproduction</u></p> <p>445 FLUID LOADS ON ENERGY STRUCTURES PREPREREQUISITES: Engineering 344 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>445<u>0</u> FLUID LOADS ON ENERGY STRUCTURES PREPREREQUISITES: <u>Engineering 3340</u>, <u>Engineering 3440</u>, or <u>Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #46

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4470 - Micro Grids to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p><u>Reproduction</u></p> <p>447 MICRO GRIDS PREREQUISITES: Engineering 344 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>447<u>0</u> MICRO GRIDS PREREQUISITES: <u>Engineering 3340</u>, <u>Engineering 3440</u>, or <u>Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #47

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4510 - Geoinformatics in Bioresources to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>451 GEOINFORMATICS IN BIORESOURCES PREREQUISITES: Engineering 354 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>451<u>0</u> GEOINFORMATICS IN BIORESOURCES PREREQUISITES: <u>Engineering 3340, Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #48

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4530 - Fundamentals of Agricultural Machinery to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>453 FUNDAMENTALS OF AGRICULTURAL MACHINERY PREREQUISITES: Engineering 354 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>453<u>0</u> FUNDAMENTALS OF AGRICULTURAL MACHINERY PREREQUISITES: <u>Engineering 3340, Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #49

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4550 - Chemical and Biological Processes to include that any one of either Engineering 3340 or Engineering 3440 or Engineering 3540 is required as a course prerequisite.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>455 (formerly 359) CHEMICAL AND BIOLOGICAL PROCESSES PREREQUISITES: Engineering 354 Three hours of lecture and three hours of lab per week</p> | <p><u>Revised</u></p> <p>455<u>0</u> (formerly 359) CHEMICAL AND BIOLOGICAL PROCESSES PREREQUISITES: <u>Engineering 3340, Engineering 3440, or Engineering 3540</u> Three hours of lecture and three hours of lab per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #50

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To change the prerequisites for ENGN 4710 - Project-based Professional Practice III by adding that Engineering 3260 must be completed or taken concurrently and that Engineering 4210 must be taken concurrently.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p><u>Reproduction</u></p> <p>471 PROJECT-BASED PROFESSIONAL PRACTICE III PREREQUISITE: Engineering 372 with a grade of at least 60%, Engineering 327, Engineering 363, and Engineering 382 Six lecture hours and six lab hours per week</p> | <p><u>Revised</u></p> <p>471<u>0</u> PROJECT-BASED PROFESSIONAL PRACTICE III PREREQUISITE: Engineering 372<u>0</u> with a grade of at least 60%, Engineering 327<u>0</u>, Engineering 363<u>0</u>, and Engineering 382<u>0</u>. <u>Engineering 3260 must be completed or taken concurrently. Engineering 4210 must be taken concurrently.</u> Six lecture hours and six lab hours per week</p> |

Rationale for Change: This change is part of a broader set of course requisite changes resulting from a recent review of all engineering courses. Collectively, these changes will better streamline student progression through the program and will provide more options for selection of focus area courses in years 3 and 4.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: See rationale.

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #51

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To revise the admission requirements in the School of Sustainable Design Engineering by deleting, in its entirety, the section entitled “Applicants from Dalhousie Associated Universities”.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u></p> <p>School of Sustainable Design Engineering Admission Requirements</p> <p>Bachelor of Science in Engineering (Sustainable Design Engineering)</p> <p>Applicants from Dalhousie Associated Universities:</p> <p>Applicants who have successfully completed a Diploma in Engineering (or an equivalent composition of courses) from a Dalhousie Associated University will be considered for entry into the Bachelor of Science in Engineering (Sustainable Design Engineering) degree program based on University Transfer Students admission regulations and the following criteria:</p> <ul style="list-style-type: none"> • Students with a GPA of 3.0 or greater in the common Associated University diploma requirements and a minimum grade of 70% in Engineering 222 Engineering Projects II (or Associated University equivalent) are guaranteed admission to the Program. • Students with a GPA of between 2.0 and 2.9 in the common Associated University diploma requirements and a minimum grade of 70% in Engineering 222 Engineering Projects II (or Associated University equivalent) will be considered for admission to the Program based on competitive placement and available seats. <p>Note that Engineering Dynamics (Engineering 234) is required for this degree.</p> | <p><u>Revised</u></p> <p>School of Sustainable Design Engineering Admission Requirements</p> <p>Bachelor of Science in Engineering (Sustainable Design Engineering)</p> <p>Applicants from Dalhousie Associated Universities:</p> <p>Applicants who have successfully completed a Diploma in Engineering (or an equivalent composition of courses) from a Dalhousie Associated University will be considered for entry into the Bachelor of Science in Engineering (Sustainable Design Engineering) degree program based on University Transfer Students admission regulations and the following criteria:</p> <ul style="list-style-type: none"> • Students with a GPA of 3.0 or greater in the common Associated University diploma requirements and a minimum grade of 70% in Engineering 222 Engineering Projects II (or Associated University equivalent) are guaranteed admission to the Program. • Students with a GPA of between 2.0 and 2.9 in the common Associated University diploma requirements and a minimum grade of 70% in Engineering 222 Engineering Projects II (or Associated University equivalent) will be considered for admission to the Program based on competitive placement and available seats. <p>Note that Engineering Dynamics (Engineering 234) is required for this degree.</p> |

CALENDAR & CURRICULUM CHANGE

Motion #51

Rationale for Change: In our recent accreditation review, a deficiency was identified regarding the transfer of students from the DAL Associated University (AU) system into Year 3 of our program following the student's completion of a diploma at the AU. The core of the concern is that these students do not have an equivalent experience to those students who take Years 1 and 2 at UPEI, particularly as it relates to our design curriculum. The current criteria for admission to our degree program contains a specific section for applicants with a diploma from the Dalhousie AU system which gives them entry to our Year 3 based on the model that their AU diploma is equivalent to our Years 1 & 2. To address the accreditation concern, it is proposed that the admission criteria for *Applicants from Dalhousie Associated Universities* be deleted in its entirety. In its place, such applicants would be reviewed under the criteria defined by *Applicants from other institutions*. This would not preclude our consideration of DAL AU students for transfer into our program. It would mean that the block transfer of their diploma courses to our Years 1 & 2 courses would no longer apply. We would consider transfers for them on a course-by-course basis.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #52

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

Faculty/School/Department: **Science**

Department/Program(s)/Academic Regulations: **School of Sustainable Design Engineering**

MOTION: To revise the calendar entry for the Bachelor of Science in Sustainable Design Engineering degree program as presented to reflect the following: 1) revisions to faculty members; 2) termination of the degree transfer option with Dalhousie University and the University of New Brunswick; 3) inclusion of lists of technical and focus area electives; 4) changes to prerequisites for focus area electives; and 5) other housekeeping and clarification items.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>School of Sustainable Design Engineering http://upei.ca/engineering Engineering Faculty</p> <p>Nicholas Krouglicof, Associate Dean Don MacEwen, Professor Amy Hsiao, Associate Professor Trung Ngo, Associate Professor Wayne Peters, Associate Professor Andrew Swingler, Associate Professor Bishnu Acharya, Assistant Professor Sadegh (Ben) Babaii, Assistant Professor Aitazaz Farooque, Assistant Professor Elizabeth Osgood, Assistant Professor</p> <p>Overview</p> <p>The School of Sustainable Design Engineering at UPEI offers a progressive and innovative four-year Bachelor of Science in Engineering (Sustainable Design Engineering) degree which recognizes the need for a broad and balanced engineering education. The program follows current trends in engineering education and focuses on student outcomes. Small class sizes within an activity-based learning environment allow faculty and staff to be student-centric and to provide specific and timely input to individual students.</p> <p>Students are exposed to a broad base of knowledge and skills in engineering science, natural science, mathematics, and complementary studies in concert</p> | <p>School of Sustainable Design Engineering http://upei.ca/engineering Engineering Faculty</p> <p>Nicholas Krouglicof, Associate Dean Don MacEwen, Professor Amy Hsiao, Associate Professor Trung Ngo, Associate Professor Wayne Peters, Associate Professor Andrew Swingler, Associate Professor <u>Andrew Trivett, Associate Professor</u> Bishnu Acharya, Assistant Professor <u>Ali Ahmadi, Assistant Professor</u> <u>Marya Ahmed, Assistant Professor</u> Sadegh (Ben) Babaii, Assistant Professor Aitazaz Farooque, Assistant Professor <u>Nadja Bressan, Assistant Professor</u> <u>Matthew Hall, Assistant Professor</u> Elizabeth Osgood, Assistant Professor</p> <p>Overview</p> <p>The School of Sustainable Design Engineering at UPEI offers a progressive and innovative four-year Bachelor of Science in Engineering (Sustainable Design Engineering) degree which recognizes the need for a broad and balanced engineering education. The program follows current trends in engineering education and focuses on student outcomes. Small class sizes within an activity-based learning environment allow faculty and staff to be student-centric and to provide specific and timely input to individual students.</p> <p>Students are exposed to a broad base of knowledge and skills in engineering science, natural science, mathematics, and complementary studies in concert with an applied project-based design stream simulating the</p> |

CALENDAR & CURRICULUM CHANGE

Motion #52

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>with an applied project-based design stream simulating the engineering profession. Students entering the degree program will be actively engaged in the profession of engineering from day one, providing creative and sustainable solutions to society's problems. The degree program is designed to provide a highly flexible learning environment that is responsive to the dynamic needs of students and the industries that employ them.</p> <p>In addition to fundamental science, engineering science and mathematics courses, students are required to develop skills in engineering design, communication, analysis, project management, professional ethics and more. With a solid grounding in these fundamentals, students in Program Years 3 and 4 can enhance their technical knowledge by choosing one of three engineering focus areas: Mechatronics (MT), Sustainable Energy (SE), or Bioresources (BR).</p> <p>This program is specifically structured to maximize flexibility and mobility for students looking to complete a degree in any engineering discipline. The first two years of the degree program are common with those of our partner institutions. This allows, for instance, students with a Diploma in Engineering from one of the Dalhousie University Associated Universities to transfer into the third year of the Sustainable Design Engineering degree. Similarly, students seeking a degree in a more traditional engineering discipline can complete the first two years of their studies at UPEI before transferring to Dalhousie or to the University of New Brunswick to complete their degree.</p> <p>Engineered by Design</p> <p>It is increasingly recognized that understanding basic science and mathematics are only two of the many areas that are essential to professional engineering practice. Engineering students in this program must make responsible decisions based on good judgment and an ability to justify decisions within a structured analytical framework. Based on this generalist philosophy, this program is designed to develop a student's ability to think. This fundamental requirement of engineers to think critically in response to ever-changing and complex situations is accomplished through a design stream core which relies heavily on inquiry-based learning supported by traditional lecture-based knowledge. The progression in complex thinking skills occurs over the duration of the</p> | <p>engineering profession. Students entering the degree program will be actively engaged in the profession of engineering from day one, providing creative and sustainable solutions to society's problems. The degree program is designed to provide a highly flexible learning environment that is responsive to the dynamic needs of students and the industries that employ them.</p> <p>In addition to fundamental science, engineering science and mathematics courses, students are required to develop skills in engineering design, communication, analysis, project management, professional ethics and more. With a solid grounding in these fundamentals, students in Program Years 3 and 4 can enhance their technical knowledge by choosing <u>courses from among</u> one of three engineering focus areas: Mechatronics (MT), Sustainable Energy (SE), or Bioresources (BR).</p> <p>This program is specifically structured to maximize flexibility and mobility for students looking to complete a degree in any engineering discipline. The first two years of the degree program are common with those of our partner institutions. This allows, for instance, students with a Diploma in Engineering from one of the Dalhousie University Associated Universities to transfer into the third year of the Sustainable Design Engineering degree. Similarly, students seeking a degree in a more traditional engineering discipline can complete the first two years of their studies at UPEI before transferring to Dalhousie or to the University of New Brunswick to complete their degree.</p> <p>Engineered by Design</p> <p>It is increasingly recognized that understanding basic science and mathematics are only two of the many areas that are essential to professional engineering practice. Engineering students in this program must make responsible decisions based on good judgment and an ability to justify decisions within a structured analytical framework. Based on this generalist philosophy, this program is designed to develop a student's ability to think. This fundamental requirement of engineers to think critically in response to ever-changing and complex situations is accomplished through a design stream core which relies heavily on inquiry-based learning supported by traditional lecture-based knowledge. The progression in complex thinking skills occurs over the duration of the four-year program and beyond through appreciation of</p> |



CALENDAR & CURRICULUM CHANGE

Motion #52

| <p><u>Reproduction of Current Calendar Entry</u></p> | <p><u>Proposed revision with changes underlined and deletions indicated clearly</u></p> |
|---|--|
| <p>four-year program and beyond through appreciation of lifelong learning and professional development.</p> <p>An integrated, project-based professional practice (PBPP) stream provides an applied foundation where students work on real community and industry-based projects in every semester of their program. Traditional content courses are delivered via an integrated and timely approach with the PBPP courses so that professional practice skills are developed in a simulated workplace environment. This program emphasizes design as an essential element of engineering as reflected in the Community Design Program (Year 1), and the Junior Design (Year 2) and Senior Design (Years 3 and 4) Clinics.</p> <p>The following core design courses must be taken in succession to support the students' developing skills.</p> <p>Community Design Program (Program Year 1)</p> <ol style="list-style-type: none"> 1. Engineering 121—Engineering Communication 2. Engineering 122—Engineering Analysis <p>Junior Design Clinic (Program Year 2)</p> <ol style="list-style-type: none"> 3. Engineering 221—Engineering Projects I 4. Engineering 222—Engineering Projects II <p>Senior Design Clinic (Program Years 3 and 4)</p> <ol style="list-style-type: none"> 5. Engineering 371—Project-Based Professional Practice I 6. Engineering 372—Project-Based Professional Practice II 7. Engineering 471—Project-Based Professional Practice III 8. Engineering 472—Project-Based Professional Practice IV <p>Sustainable Design Engineering Degree</p> <p>Students are strongly encouraged to meet with a faculty advisor early in the program to review course selection. The following is the course sequence for the four-year degree:</p> | <p>lifelong learning and professional development.</p> <p>An integrated, project-based professional practice (PBPP) stream provides an applied foundation where students work on real community and industry-based projects in every semester of their program. Traditional content courses are delivered via an integrated and timely approach with the PBPP courses so that professional practice skills are developed in a simulated workplace environment. This program emphasizes design as an essential element of engineering as reflected in the Community Design Program (Year 1), and the Junior Design (Year 2) and Senior Design (Years 3 and 4) Clinics.</p> <p>The following core design courses must be taken in succession to support the students' developing skills.</p> <p>Community Design Program (Program Year 1)</p> <ol style="list-style-type: none"> 1. Engineering 121<u>0</u>—Engineering Communication 2. Engineering 122<u>0</u>—Engineering Analysis <p>Junior Design Clinic (Program Year 2)</p> <ol style="list-style-type: none"> 3. Engineering 221<u>0</u>—Engineering Projects I 4. Engineering 222<u>0</u>—Engineering Projects II <p>Senior Design Clinic (Program Years 3 and 4)</p> <ol style="list-style-type: none"> 5. Engineering 371<u>0</u>—Project-Based Professional Practice I 6. Engineering 372<u>0</u>—Project-Based Professional Practice II 7. Engineering 471<u>0</u>—Project-Based Professional Practice III 8. Engineering 472<u>0</u>—Project-Based Professional Practice IV <p>Sustainable Design Engineering Degree</p> <p>Students are strongly encouraged to meet with a faculty advisor early in the program to review course selection. The following is the course sequence for the four-year degree. <u>Please note that a 60% minimum grade is required in each of the following courses to proceed to the next course: Engineering 1210, 1220, 2210, 2220, 3710, 3720 and 4710.</u></p> <p>Program Year 1—Term 1</p> |

CALENDAR & CURRICULUM CHANGE

Motion #52

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>Program Year 1—Term 1</p> <ul style="list-style-type: none"> Engineering 121—Engineering Communications Engineering 131—Computer Programming with Computer Applications Physics 111—General Physics I Chemistry 111—General Chemistry I Mathematics 191—Single Variable Calculus I UPEI 101—Writing Studies <p>Program Year 1—Term 2</p> <ul style="list-style-type: none"> Engineering 122—Engineering Analysis Engineering 152—Engineering and the Biosphere Physics 112—General Physics II Chemistry 112—General Chemistry II Mathematics 192—Single Variable Calculus II Mathematics 221—Introductory Statistics I <p>Program Year 2—Term 3</p> <ul style="list-style-type: none"> Engineering 221—Engineering Projects I Engineering 231—Strength of Materials Engineering 261—Thermo Fluids I Engineering 281—Electric Circuits I Mathematics 261—Linear Algebra Mathematics 291—Multivariable and Vector Calculus <p>Program Year 2—Term 4</p> <ul style="list-style-type: none"> Engineering 222—Engineering Projects II Engineering 234—Engineering Dynamics Mathematics 301—Differential Equations Two (2) technical electives* One (1) humanities elective (courses typically offered by the Faculty of Arts, except basic languages and economics) <p>*Students should consult with a faculty advisor for a list of acceptable technical electives.</p> <p>Program Year 3—Term 5</p> <ul style="list-style-type: none"> Engineering 371—Project-Based Professional Practice I | <ul style="list-style-type: none"> Engineering 121<u>0</u>—Engineering Communications Engineering 131<u>0</u>—Computer Programming with Computer Applications Physics 111<u>0</u>—General Physics I Chemistry 111<u>0</u>—General Chemistry I Mathematics 191<u>0</u>—Single Variable Calculus I UPEI 101<u>0</u>—Writing Studies (<u>or UPEI 1020, or UPEI 1030</u>) <p>Program Year 1—Term 2</p> <ul style="list-style-type: none"> Engineering 122<u>0</u>—Engineering Analysis Engineering 152<u>0</u>—Engineering and the Biosphere Physics 112<u>0</u>—General Physics II Chemistry 112<u>0</u>—General Chemistry II Mathematics 192<u>0</u>—Single Variable Calculus II Mathematics 221<u>0</u>—Introductory Statistics I <p>Program Year 2—Term 3</p> <ul style="list-style-type: none"> Engineering 221<u>0</u>—Engineering Projects I Engineering 231<u>0</u>—Strength of Materials Engineering 261<u>0</u>—Thermo Fluids I Engineering 281<u>0</u>—Electric Circuits I Mathematics 261<u>0</u>—Linear Algebra Mathematics 291<u>0</u>—Multivariable and Vector Calculus <p>Program Year 2—Term 4</p> <ul style="list-style-type: none"> Engineering 222<u>0</u>—Engineering Projects II Engineering 234<u>0</u>—Engineering Dynamics Mathematics 301<u>0</u>—Differential Equations Two (2) technical electives* One (1) humanities elective (courses typically offered by the Faculty of Arts, except basic languages and economics) <p>*Students should consult with a faculty advisor for a list of acceptable technical electives.</p> <p>Program Year 3—Term 5</p> <ul style="list-style-type: none"> Engineering 371<u>0</u>—Project-Based Professional Practice I |

CALENDAR & CURRICULUM CHANGE

Motion #52

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <ul style="list-style-type: none"> • Engineering 322—Engineering Measurements • Engineering 326—Materials, Mechanics, and Manufacturing • Engineering 381—Systems Engineering • One (1) introductory engineering focus area elective** | <ul style="list-style-type: none"> • Engineering 3220—Engineering Measurements • Engineering 3260—Materials, Mechanics, and Manufacturing • Engineering 3810—Systems Engineering • One (1) introductory engineering focus area elective** |
| <p>Program Year 3—Term 6</p> | <p>Program Year 3—Term 6</p> |
| <ul style="list-style-type: none"> • Engineering 372—Project-Based Professional Practice II • Engineering 327—Machines & Automatic Controls • Engineering 363—Thermo Fluids III with Heat Transfer • Engineering 382—System Dynamics with Simulation • One (1) engineering focus area elective** | <ul style="list-style-type: none"> • Engineering 3720—Project-Based Professional Practice II • Engineering 3270—Machines & Automatic Controls • Engineering 3630—Thermo Fluids III with Heat Transfer • Engineering 3820—System Dynamics with Simulation • One (1) engineering focus area elective** |
| <p>Program Year 4—Term 7</p> | <p>Program Year 4—Term 7</p> |
| <ul style="list-style-type: none"> • Engineering 471—Project-Based Professional Practice III • Engineering 421—Facilitated Study & Experimental Practice • Engineering 423—Technology Management & Entrepreneurship • One (1) engineering focus area elective** | <ul style="list-style-type: none"> • Engineering 4710—Project-Based Professional Practice III • Engineering 4210—Facilitated Study & Experimental Practice • Engineering 4230—Technology Management & Entrepreneurship • One (1) engineering focus area elective** |
| <p>Program Year 4—Term 8</p> | <p>Program Year 4—Term 8</p> |
| <ul style="list-style-type: none"> • Engineering 472—Project-Based Professional Practice IV • One (1) engineering focus area elective** • One (1) science or business elective • One (1) humanities elective (courses typically offered by the Faculty of Arts, except basic languages and economics) | <ul style="list-style-type: none"> • Engineering 4720—Project-Based Professional Practice IV • One (1) engineering focus area elective** • One (1) science or business elective • One (1) humanities elective (courses typically offered by the Faculty of Arts, except basic languages and economics) |
| | <p><u>Students should consult with a faculty advisor before choosing electives.</u></p> <p><u>*Any two of the following technical electives may be taken in Program Year 2 – Term 4:</u></p> <ul style="list-style-type: none"> • <u>Engineering 2120—Geology for Engineers</u> • <u>Engineering 2240—Introduction to Structural Engineering</u> • <u>Engineering 2250—Materials Science</u> • <u>Engineering 2350—Kinematics and Dynamics</u> |



CALENDAR & CURRICULUM CHANGE

Motion #52

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>** The first engineering focus area elective (Program Year 3, Term 5) must be the introductory elective course in either mechatronics, sustainable energy, or bioresources. All other engineering focus area electives must be selected from the approved list for that focus area and at least one of the engineering focus area electives must be at the 400 level. Before selecting engineering focus area or other electives, consult with a faculty advisor.</p> <p>Degree Transfer Option</p> <p>In addition to its own four-year engineering degree program, UPEI offer a seamless transfer pathway for the completion of a four-year engineering degree in a variety of traditional engineering disciplines at one of our partner institutions. Students who successfully complete the 24-courses in Program Years 1 and 2 at UPEI may choose to continue their engineering degree studies at either Dalhousie University (DAL) or at the University of New Brunswick (UNB). These 24 courses satisfy the first two years of an engineering degree at either DAL or UNB. Students interested in the degree transfer option to either DAL or UNB should consult with a faculty advisor for proper course selection in Program Years 1 and 2.</p> | <p>of Machines</p> <ul style="list-style-type: none"> • <u>Engineering 2420—Fundamentals of Environmental Engineering</u> • <u>Engineering 2430—Engineering Economics</u> • <u>Engineering 2520—Fundamentals of Process Engineering</u> • <u>Engineering 2620—Thermo Fluids II</u> • <u>Engineering 2820—Electric Circuits II</u> • <u>Computer Science 1610—Digital Systems</u> <p>** The first engineering focus area elective (Program Year 3, Term 5) must be the introductory elective course in either mechatronics, sustainable energy, or bioresources. All other <u>The remaining</u> engineering focus area electives in Terms 6, 7 and 8 can <u>must</u> be selected from the approved list for that focus area and at least one of the <u>any of the following courses in any of the three focus areas.</u> At least one of the engineering focus area electives must be at the 400 <u>4000</u> level. Before selecting engineering focus area or other electives, consult with a faculty advisor.</p> <ul style="list-style-type: none"> • <u>Engineering 3370 - Mechatronic System Integration and Interface Design</u> • <u>Engineering 3380 - Real-time Embedded Systems</u> • <u>Engineering 3390 - Introduction to Mechatronic Computer-Aided Product Development, Modelling and Simulation</u> • <u>Engineering 3450 - Wind and Water Power</u> • <u>Engineering 3460 - Solar Energy and Electricity Storage</u> • <u>Engineering 3490 - Chemical Energy Conversion</u> • <u>Engineering 3570 - Engineering Applications of Biological Materials</u> • <u>Engineering 3580 - Soil Mechanics</u> • <u>Engineering 3850 - Engineering Applications of Numerical Methods</u> • <u>Engineering 4310 - Advanced Fabrication Techniques and Computer-Integrated Manufacturing</u> • <u>Engineering 4320 - Control System Design</u> • <u>Engineering 4330 - Innovations in Biomedical Engineering</u> • <u>Engineering 4350 - Advanced Robotic Dynamics and Control</u> • <u>Engineering 4370 - Fluid Power Control</u> |

CALENDAR & CURRICULUM CHANGE

Motion #52

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| | <ul style="list-style-type: none"> • <u>Engineering 4410 - Macro Energy Systems</u> • <u>Engineering 4440 - Advanced Energy Storage</u> • <u>Engineering 4450 - Fluid Loads on Energy Structures</u> • <u>Engineering 4470 - Micro Grids</u> • <u>Engineering 4510 - Geoinformatics in Bioresources</u> • <u>Engineering 4530 - Fundamentals of Agricultural Machinery</u> • <u>Engineering 4550 - Chemical and Biological Processes</u> <p><u>Degree Transfer Option</u></p> <p>In addition to its own four year engineering degree program, UPEI offer a seamless transfer pathway for the completion of a four year engineering degree in a variety of traditional engineering disciplines at one of our partner institutions. Students who successfully complete the 24 courses in Program Years 1 and 2 at UPEI may choose to continue their engineering degree studies at either Dalhousie University (DAL) or at the University of New Brunswick (UNB). These 24 courses satisfy the first two years of an engineering degree at either DAL or UNB. Students interested in the degree transfer option to either DAL or UNB should consult with a faculty advisor for proper course selection in Program Years 1 and 2.</p> |

Rationale for Change: The primary changes reflected here are as a result of the School's decision to no longer support a Degree Transfer Option for students to transfer to either DAL or UNB after two years at UPEI to complete engineering degrees in disciplines other than Sustainable Design Engineering.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None. Changes proposed here would affect students enrolled for 2018/19 and later.

| <u>Authorization</u> | <u>Date:</u> |
|--|---------------------|
| Departmental Approval: Dr. Nick Krouglicof | October 11, 2017 |
| Faculty/School Approval: Science Council | October 26, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: N/A | N/A |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #53

Revision is for a: **Cross-listing Change**

Faculty/School/Department: **Science**

Department/Program: **School of Sustainable Design Engineering/Master of Science**

MOTION: The addition of the elective course ENGN 4330 - Innovations in Biomedical Engineering as a cross-listed course option for graduate students in the Master of Science in Sustainable Design Engineering program.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>ENGN 4330 INNOVATIONS IN BIOMEDICAL ENGINEERING</p> <p>This course introduces the study of medicine by focusing on innovations in medical devices, and future trends in materials, especially the increasing use of bio-resources, informatics, and mechatronics engineering applications in orthopedic, rehabilitation, simulation and education technologies. In its broader context, this course focuses on four areas of biotechnology, biomechanics, biomaterials and biosignals. Through a hands-on approach, the course focuses on innovative product development related to bio-signal, instrumentation, sensing, and image processing. Students will also gain an appreciation for the collaborative, interdisciplinary nature of engineering in medicine and its potential impact on society.</p> | <p>ENGN 4330 INNOVATIONS IN BIOMEDICAL ENGINEERING</p> <p>This course introduces the study of medicine by focusing on innovations in medical devices, and future trends in materials, especially the increasing use of bio-resources, informatics, and mechatronics engineering applications in orthopedic, rehabilitation, simulation and education technologies. In its broader context, this course focuses on four areas of biotechnology, biomechanics, biomaterials and biosignals. Through a hands-on approach, the course focuses on innovative product development related to bio-signal, instrumentation, sensing, and image processing. Students will also gain an appreciation for the collaborative, interdisciplinary nature of engineering in medicine and its potential impact on society. <u>Graduate-level project will be defined.</u> <u>Cross-listed with SDE 8330</u></p> |

Rationale for Change: To provide an option for Master of Science in Sustainable Design Engineering students focusing on Bioresources and Bioengineering to take an existing upper-level, undergraduate course to fulfill their course requirements in the graduate program.

Effective Date: May 2018

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Nicholas Krouglicof | October 2, 2017 |
| Faculty/School Approval: Science Council | October 27, 2017 |
| Faculty Dean's Approval: Kathy Gottschall-Pass | October 26, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | November 14, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #54

Faculty/School: **Veterinary Medicine**

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

MOTION: That the new course, VBS 4388 Acute Wildlife Medicine and Care, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VBS 4388, Acute Wildlife Medicine and Care |
| Description | This rotation involves acute care of wildlife cases that present to the Wildlife Service. Students will perform emergency care and stabilization, triage, diagnostic work-up, and medical and surgical intervention of injured and acutely ill wild animals. Developing and ensuring hospitalization husbandry requirements appropriate for the species will also be required as will formulating and conducting rehabilitation plans for the patients |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program |
| Credit(s) | 1 |
| Notation | One week in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students.

Rationale for New Course: This course was successfully offered as a Special Topics course (VBS 495) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required

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

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Jonathan Spears, Department Chair | October 5, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #54

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VBS 4388, Acute Wildlife Medicine and Care, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keywords wildlife medicine retrieves 66 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. A journal title search for wildlife retrieves 72 titles, in addition to the 267 more general medical, veterinary medicine, and large animal journals
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Current resources are sufficient.

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #55

Faculty/School: **Veterinary Medicine**

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

MOTION: That the new course, VBS 4389 Laboratory Animal Theriogenology, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VBS 4389, Laboratory Animal Theriogenology |
| Description | This rotation introduces advanced reproductive techniques commonly performed in laboratory animal medicine. Topics include artificial insemination, embryo transfer and Caesarian-section for rederivation and research manipulations, semen collection and storage, surgical gonadectomy, and hormonal manipulation of the estrous cycle. Reproductive diseases and toxicology of various research animal species will be introduced. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program |
| Credit(s) | 1 |
| Notation | One week in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students.

Rationale for New Course: This course was successfully offered as a Special Topics course (VBS 495) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required.

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

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Jonathan Spears, Department Chair | October 5, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #55

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VBS 4389, Laboratory Animal Theriogenology, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keyword theriogenology retrieves 26 titles published since 2000; - a catalogue search for the keywords animal reproduction retrieves 61 results
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. A journal title search for theriogenology retrieves 3 titles and a keyword search for animal reproduction retrieves 16 results, in addition to the 267 more general medical, veterinary medicine, and large animal journals
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Current resources are sufficient.

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #56

Faculty/School: **Veterinary Medicine**

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

MOTION: That the new course, VBS 4390 Large Animal Clinical Anatomy, be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | VBS 4390, Large Animal Applied Clinical Anatomy |
| Description | This rotation is designed to help reinforce knowledge of anatomy and assist in its application to clinical cases. Students attend morning rounds in the large animal hospital, participate in small group discussions, perform dissections in the anatomy lab, discuss clinical cases, and review radiographs. Students will complete online quizzes or assignments to prepare for the following day and each student will research and present a topic on the final day of the rotation. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program |
| Credit(s) | 1 |
| Notation | One week in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students.

Rationale for New Course: This course was successfully offered as a Special Topics course (VBS 495F) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required

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

| Authorization | Date: |
|--|-------------------|
| Departmental Approval: Dr. Jonathan Spears, Department Chair | August 16, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #56

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VBS 4390, Large Animal Applied Clinical Anatomy, Veterinary Medicine

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

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subject heading veterinary anatomy retrieves 54 titles published since 2000; a keyword search for large animal anatomy retrieves 23 titles published after 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. A journal title search for veterinary anatomy retrieves 9 titles, in addition to the 267 more general medical, veterinary medicine, and large animal journals
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Current resources are sufficient.

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #57

Faculty/School: **Veterinary Medicine**

Department/Program(s): **Companion Animals**

MOTION: That the new course, VCA 4030 Clinics in Companion Animal Neurology, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VCA 4030, Clinics in Companion Animal Neurology |
| Description | This is a clinical rotation in the neurology service of the Veterinary Teaching Hospital. With faculty supervision, students participate in the practice of clinical veterinary neurology. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program |
| Credit(s) | 2 |
| Notation | Two weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 4 to 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students in the AVC Veterinary Teaching Hospital.

Rationale for New Course: This course was successfully offered as a Special Topics course (VCA 495I) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required

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

| <i>Authorization</i> | <i>Date:</i> |
|--|---------------------|
| Departmental Approval: Dr. Stephanie Hamilton Department Chair | October 4, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #57

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VCA 4030, Clinics in Companion Animal Neurology, Veterinary Medicine

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

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keywords veterinary neurology retrieves 91 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The library provides access to 267 general medical, veterinary medicine, and large animal journals.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

Summary of additional budget allocation required:

- One-time: 0 For each of 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 | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #58

Faculty/School: **Veterinary Medicine**

Department/Program(s): **Companion Animals**

MOTION: That the new course, VCA 4040 Clinics in Companion Animal Oncology, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VCA 4040, Clinics in Companion Animal Oncology |
| Description | This is a clinical rotation in the oncology service of the Veterinary Teaching Hospital. With faculty supervision, students participate in the practice of clinical veterinary oncology. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program |
| Credit(s) | 2 |
| Notation | Two weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 4 to 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students in the AVC Veterinary Teaching Hospital.

Rationale for New Course: This course was successfully offered as a Special Topics course (VCA 495P) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required

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

Authorization

Date:

| | |
|--|-------------------|
| Departmental Approval: Dr. Stephanie Hamilton Department Chair | October 4, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #58

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VCA 4040, Clinics in Companion Animal Oncology, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subject heading veterinary oncology retrieves 54 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The journal title list contains 267 medical, veterinary medicine, and large animal journals.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Yes

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #59

Faculty/School: **Veterinary Medicine**

Department/Program(s): **Companion Animals**

MOTION: That the new course, VCA 4050 Community Practice II, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VCA 4050, Community Practice II |
| Description | In this second rotation through the small animal Community Practice service of the Veterinary Teaching Hospital, students develop a more detailed knowledge of the principles and techniques involved in primary care veterinary practice. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | VCA 4340 and fourth year standing in the DVM program |
| Credit(s) | 3 |
| Notation | Three weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students in the AVC Veterinary Teaching Hospital.

Rationale for New Course: This course was successfully offered as a Special Topics course (VCA 495L) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required.

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

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Dr. Stephanie Hamilton, Department Chair | October 5, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #59

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VCA 4050, Community Practice II, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subject heading veterinary medicine retrieves 506 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. A journal title search retrieves 267 general medical, veterinary medicine, and large animal journals.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Yes

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #60

Faculty/School: **Veterinary Medicine**

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

MOTION: That a new course, VHM 4070 Production Health of Warm Water Shrimp and Fish, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VHM 4070, Production Health of Warm Water Shrimp and Fish |
| Description | This rotation is conducted in Thailand under the supervision of an AVC faculty member. Students will develop understanding of the systems for production and health management of shrimp and tropical fish aquaculture in Thailand. Opportunities for application of veterinary skills for disease diagnostics, treatment and prevention strategies will be offered through lectures, laboratory sessions and field trips. |
| Cross-Listing | NA |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program. |
| Credit(s) | 2 |
| Notation | Two weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: One to three

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students.

Rationale for New Course: This rotation has been successfully offered as a Special Topics course (VHM 495) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Resources Required: No additional resources required.

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

Authorization Date:

| | |
|---|-------------------|
| Departmental Approval: Dr. Dan Hurnik | October 5, 2017 |
| Faculty/School Approval: Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



NEW COURSE PROPOSAL

Motion #60

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VHM 4070, Production Health of Warm Water Shrimp and Fish, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subject heading aquaculture retrieves 136 titles published since 2000
 - Journals - collection includes 46 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Fisheries. A journal title search for fisheries retrieved 92 titles, in addition to the 267 more general medical, veterinary medicine, and large animal journals in the library's collection.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support- N/A

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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.
- Other One-Time or Ongoing Library expenses (e.g. software licenses) - N/A

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? Yes

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #61

Faculty/School: **Veterinary Medicine**

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

MOTION: That a new course, VHM 4080 Clinics in Ruminant Medicine and Surgery - University of Montreal, Faculty of Veterinary Medicine, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VHM 4080, Clinics in Ruminant Medicine and Surgery - University of Montreal, Faculty of Veterinary Medicine |
| Description | In this rotation students work with clinicians in the diagnosis and treatment of conditions in ruminant animals, primarily dairy cattle, presented to the Veterinary Teaching Hospital at the University of Montreal in Saint-Hyacinthe, Quebec. The rotation emphasizes individual animal medicine and surgery. Students provide patient care, actively participate in the diagnostic, treatment, and management decisions concerning their patients, and participate in rounds and discussion topics. Duties include after-hours emergency and treatment crew. |
| Cross-Listing | NA |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program. |
| Credit(s) | 2 |
| Notation | Two weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 5

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity and thus cannot accommodate more than 6 students.

Rationale for New Course: This rotation has been offered as a 3 week rotation in the past, and as a 2 week Special Topics rotation more recently. As it will continue to be offered as a 2 week rotation going forward, the college is requesting creation of a new course.

Effective Date: May 2018

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Resources Required: No additional resources beyond the previously offered Special Topics course.

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

Authorization

Date:

| | |
|---|-------------------|
| Departmental Approval: Dr. Dan Hurnik | October 5, 2017 |
| Faculty/School Approval: Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #61

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VHM 4080, Clinics in Ruminant Medicine and Surgery - University of Montreal, Faculty of Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subject heading ruminants retrieves 46 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Science, in addition to the 267 more general medical, veterinary medicine, and large animal journals
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support- N/A

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Yes

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #62

Faculty/School: **Veterinary Medicine**

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

MOTION: That a new course, VHM 4090 Topics in Veterinary Acupuncture – Equine, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VHM 4090, Topics in Veterinary Acupuncture – Equine |
| Description | This rotation provides students with the specific clinical features of acupuncture for effective treatment of selected commonly encountered conditions in horses. Lectures and laboratories are focused on chronic pain syndromes, though other diseases may be briefly discussed. |
| Cross-Listing | NA |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program. |
| Credit(s) | 1 |
| Notation | One week in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity and thus cannot accommodate more than 6 students.

Rationale for New Course: This rotation has been designed to meet the needs of a subset of DVM students with an equine career focus as it will concentrate on effective use of acupuncture in this species.

Effective Date: May 2018

Implications for Other Programs: None

Impact on Students Currently Enrolled: None

Resources Required: Suitable classroom, laboratory and clinical space, teaching horses.

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

| Authorization | Date: |
|---|--------------------|
| Departmental Approval: Dr. Dan Hurnik | September 22, 2017 |
| Faculty/School Approval: Curriculum Committee | November 15, 2017 |
| Dean's Approval: Dr. Greg Keefe | November 28, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #62

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VHM 4090 Topics in Veterinary Acupuncture - Equine

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

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keywords veterinary acupuncture retrieves 23 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The library provides access to 267 general medical, veterinary medicine, and large animal journals.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- Physical Space in Library (other than holdings, explain) - N/A

Summary of additional budget allocation required:

- One-time: 0 For each of 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 | November 15, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 28, 2017 |

NEW COURSE PROPOSAL

Motion # 63

Faculty/School: **Veterinary Medicine**

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

MOTION: That a new course, VHM 4140 Small Animal Theriogenology, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VHM 4140, Small Animal Theriogenology |
| Description | This rotation focuses on development of knowledge and skills needed to deliver reproductive services in small animal practice. Students will participate in case-based discussions on breeding management, breeding soundness exams, abortion, elective C-section timing, contraception, and advanced reproductive technology. Opportunities will be provided to gain technical skills in ultrasound pregnancy diagnosis, semen collection and freezing, and transcervical insemination. |
| Cross-Listing | NA |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program. |
| Credit(s) | 1 |
| Notation | One week in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students and thus cannot accommodate more than 6 students.

Rationale for New Course: The changes implemented recently to the DVM fourth year core rotation structure have introduced the possibility of expanding our elective offerings in theriogenology to give students entering small animal practice an opportunity to develop knowledge and skills related to delivery of reproductive services.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Resources Required: Access to seminar room, access to theriogenology VTH lab, access to AVC vehicle for transportation to external sites, disposable supplies (~ \$300), 1 or 2 intact female canine cadavers and access to post-mortem lab.

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

| <u>Authorization</u> | <u>Date:</u> |
|---|---------------------|
| Departmental Approval: Dr. Dan Hurnik | October 27, 2017 |
| Faculty/School Approval: Curriculum Committee | November 15, 2017 |
| Dean's Approval: Dr. Greg Keefe | November 28, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion # 63

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VHM 4140 Small Animal Theriogenology

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

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keyword theriogenology retrieves 26 titles published since 2000; - a catalogue search for the keywords animal reproduction retrieves 61 results
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. A journal title search for theriogenology retrieves 3 titles and a keyword search for animal reproduction retrieves 16 results, in addition to the 267 more general medical, veterinary medicine, and large animal journals
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient

Physical Space in Library (other than holdings, explain) - N/A

Summary of additional budget allocation required:

- One-time: 0 For each of 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 | November 15, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 28, 2017 |

NEW COURSE PROPOSAL

Motion #64

Faculty/School: **Veterinary Medicine**

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

MOTION: That a new course, VHM 4150 Clinics in Bovine Theriogenology, be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | VHM 4150, Clinics in Bovine Theriogenology |
| Description | This rotation focuses on development of knowledge and skills needed to deliver reproductive services in bovine practice. Students will gain an advanced understanding of the bovine estrous cycle and its manipulation, analyze reproductive records, and participate in daily case-based discussions. Opportunities will be provided for students to gain skills in palpation and ultrasonography of the reproductive tract, fetal gender determination, embryo recovery and transfer and bull breeding soundness evaluations. |
| Cross-Listing | NA |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program. |
| Credit(s) | 2 |
| Notation | Two weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students and thus cannot accommodate more than 6 students.

Rationale for New Course: The changes implemented recently to the DVM fourth year core rotation structure have introduced the possibility of expanding our elective offerings in theriogenology to give students entering bovine practice an opportunity to develop knowledge and skills related to delivery of reproductive services.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Resources Required: Access to seminar room, access for bovine handling area and theriogenology lab in VTH, access to service vehicle for transportation to external sites, disposable supplies (~ \$500), access to up to 10 teaching cows for B1/B2 procedures pending ACC approval.

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

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Dr. Dan Hurnik | October 27, 2017 |
| Faculty/School Approval: Curriculum Committee | November 15, 2017 |
| Dean's Approval: Dr. Greg Keefe | November 28, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #64

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VHM 4150 Clinics in Bovine Theriogenology

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

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keyword theriogenology retrieves 26 titles published since 2000; - a catalogue search for the keywords bovine reproduction retrieves 41 results
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. A journal title search for theriogenology retrieves 3 titles and a keyword search for animal reproduction retrieves 16 results, in addition to the 267 more general medical, veterinary medicine, and large animal journals
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)

Subscription Dependencies (in interdisciplinary packages)

- Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals

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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient

Physical Space in Library (other than holdings, explain) - N/A

Summary of additional budget allocation required:

- One-time: 0 For each of 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 | November 15, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 28, 2017 |

NEW COURSE PROPOSAL

Motion #65

Faculty/School: **Veterinary Medicine**

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

MOTION: That a new course, VHM 4160 Topics in Veterinary Acupuncture – Small Animal, be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | VHM 4160, Topics in Veterinary Acupuncture – Small Animal |
| Description | This rotation provides students with the specific clinical features of acupuncture for effective treatment of selected commonly encountered conditions in small animals. Lectures and laboratories are focused on chronic pain syndromes, though other diseases may be briefly discussed. |
| Cross-Listing | NA |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program. |
| Credit(s) | 1 |
| Notation | One week in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity and thus cannot accommodate more than 6 students.

Rationale for New Course: This rotation has been successfully offered as a Special Topics course (VHM 495) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

Resources Required: No additional resources required.

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

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Dr. Dan Hurnik | September 22, 2017 |
| Faculty/School Approval: Curriculum Committee | November 15, 2017 |
| Dean's Approval: Dr. Greg Keefe | November 28, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #65

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VHM 4160 Topics in Veterinary Acupuncture – Small Animal

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

Existing resources:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keywords veterinary acupuncture retrieves 23 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The library provides access to 267 general medical, veterinary medicine, and large animal journals.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- Physical Space in Library (other than holdings, explain) - N/A

Summary of additional budget allocation required:

- One-time: 0 For each of 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 | November 15, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 28, 2017 |

NEW COURSE PROPOSAL

Motion #66

Faculty/School: **Veterinary Medicine**

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

MOTION: That the new course, VPM 4120 Diagnostic Veterinary Virology, be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | VPM 4120 Diagnostic Veterinary Virology |
| Description | This course presents current concepts in virology, including proper procedures for collection, handling and submission of appropriate laboratory specimens, interpretation of laboratory test results, and advanced knowledge of animal viral diseases. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program |
| Credit(s) | 1 |
| Notation | One week in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 4 to 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students.

Rationale for New Course: This course was successfully offered as a Special Topics course (VPM 495E) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required

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

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Dr. Fred Kibenge, Department Chair | October 10, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #66

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VPM 4120, Diagnostic Veterinary Virology, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subject heading veterinary virology retrieves 15 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The library has access to 267 general medical, veterinary medicine, and large animal journals.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- 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.

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Yes

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Librarian Liaison for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #67

Faculty/School: **Veterinary Medicine**

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

MOTION: That the new course, VPM 4130 Wildlife Health, be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | VPM 4130 Wildlife Health |
| Description | This rotation is focused on free-living terrestrial and marine mammals and birds. Students will gain an understanding of infectious and parasitic diseases affecting wildlife populations, practice necropsy procedures, and learn the basic principles and tools of wildlife immobilization. Visits to wildlife rehabilitation centres provide an opportunity for hands-on experience. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Fourth year standing in the DVM program |
| Credit(s) | 2 |
| Notation | Two weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 4 to 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students.

Rationale for New Course: This course was successfully offered as a Special Topics course (VPM 495D) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required

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

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Dr. Fred Kibenge, Department Chair | October 10, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #67

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VPM 4130, Wildlife Health, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the keywords wildlife medicine retrieves 66 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. A journal title search for wildlife retrieves 72 titles, in addition to the 267 more general medical, veterinary medicine, and large animal journals
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support- N/A

New resources needed to support this proposal:

- Capital Requirements (*other than new course-specific*)- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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.
- Other One-Time or Ongoing Library expenses (e.g. software licenses) - N/A

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? Yes

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Librarian Liaison for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |

NEW COURSE PROPOSAL

Motion #68

Faculty/School: **Veterinary Medicine**

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

MOTION: That the new course, VPM 4180 Chinook Project, be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | VPM 4180 Chinook Project |
| Description | This rotation is held in a location in Northern Canada with limited access to year-round essential veterinary services. Under the supervision of AVC faculty or qualified designated veterinarians, students participate in surgeries and provide basic medical care for cats, dogs and other animals such as ferrets, birds or rabbits in the local community. Students keep journals of their experiences and, following their return, work with faculty members to transform their work into short creative non-fiction pieces for publication. |
| Cross-Listing | Not Applicable |
| Prerequisite/Co-Requisite | Prerequisite: Fourth year standing in the DVM program |
| Credit(s) | 2 |
| Notation | Two weeks in duration |

This is: An Elective Course

Grade Mode: Alpha (DVM)

Anticipated Enrolment: 4 to 6

Is there an Enrolment Cap: Yes

This rotation is designed as a small group experiential learning opportunity for final year DVM students.

Rationale for New Course: This course was successfully offered as a Special Topics course (VPM 495A) and the college wishes to continue to offer it to future students.

Effective Date: May 2018

Implications for Other Programs: Not applicable.

Impact on Students Currently Enrolled: Not applicable. This change will be implemented for the Class of 2019 and future classes only.

Resources Required: No additional resources required

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

| <i>Authorization:</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Dr. Fred Kibenge, Department Chair | October 10, 2017 |
| Faculty/School Approval: AVC Curriculum Committee | October 18, 2017 |
| Dean's Approval: Dr. Greg Keefe | October 24, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #68

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

VPM 4180, Chinook Project, Veterinary Medicine

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

Existing resources as of November 2017:

- Collections - Holdings, Subscriptions, Other
 - Books - a catalogue search for the subject pet medicine retrieves 127 titles published since 2000
 - Journals - collection includes 48 out of the top 50 titles listed in the 2017 Journal Citation Report (ranked by impact factor) for the category of Veterinary Sciences. The library has access to 267 general medical, veterinary medicine, and large animal journals.
 - Databases - CAB (main veterinary indexing database which also includes some full text for conference proceedings and selected journals)
- Subscription Dependencies (in interdisciplinary packages)
 - Wiley Online and Elsevier ScienceDirect include a large number of related veterinary journals
- Physical Space in Library (other than holdings, explain) - N/A
- Library Administrative/Research Support- N/A

New resources needed to support this proposal:

- Capital Requirements *(other than new course-specific)*- None
- Collections:
 - Monographs - Sufficient
 - Subscriptions - Sufficient
 - Databases - Sufficient
 - Other - Sufficient
- 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

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? Yes

| | |
|--|--------------------------------------|
| Date Received by Liaison/Collections Librarian | October 24, 2017 |
| Name of Librarian to be Contacted for Questions | Kim Mears, Liaison Librarian for AVC |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | November 6, 2017 |



CALENDAR & CURRICULUM CHANGE

Motion #69

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

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

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

MOTION: That the course description change for VCA 4220, Clinical Nutrition in Companion Animals, be approved as proposed.

| | |
|---|---|
| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
| <p><u>Reproduction</u></p> <p>VCA 4220 Clinical Nutrition in Companion Animals This course is a clinical rotation taught by veterinarians affiliated with Mark Morris Associates. Case-based discussions emphasize the role of dietary management of disease states as the primary adjunctive therapy. Currently hospitalized patients may be incorporated in case discussions. PREREQUISITE: Fourth year standing in the DVM program. One week in duration.</p> | <p><u>Revised</u></p> <p>VCA 4220 Clinical Nutrition in Companion Animals This course is a clinical rotation taught by veterinarians affiliated with Mark Morris Associates. Case-based discussions emphasize the role of dietary management of disease states as the primary adjunctive therapy. Currently hospitalized patients may be incorporated in case discussions. <u>This rotation provides students with an understanding of the role of nutrients in health and disease and the importance of nutrition in clinical practice. Students perform nutritional assessments, develop nutrition support plans, determine nutritional adequacy of commercial and homemade diets, implement preventive and curative dietary strategies for nutrition-sensitive disorders and monitor progression of therapy, develop client communication strategies regarding nutrition, and assist clients in selecting appropriate diets for their pets.</u> PREREQUISITE: Fourth year standing in the DVM program. One week in duration.</p> |

Rationale for Change: Revise the title to reflect course content and delivery.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Dr. Stephanie Hamilton | October 26, 2017 |
| Faculty/School Approval: Curriculum Committee | November 15, 2017 |
| Dean's Approval: Dr. Greg Keefe | November 28, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



CALENDAR & CURRICULUM CHANGE

Motion #70

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

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

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

MOTION: That the pre-requisite change for VHM 4820 Veterinary Acupuncture, be approved as proposed.

| | |
|---|--|
| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
| <u>Reproduction</u> VHM 4820 Veterinary Acupuncture Pre-requisite: Fourth year standing in the DVM program and permission of the instructor. | <u>Revised</u> VHM 4820 Veterinary Acupuncture Pre-requisite: Fourth year standing in the DVM program. and permission of the instructor. |

Rationale for Change: Remove "permission of instructor".

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Dr. Dan Hurnik | September 22, 2017 |
| Faculty/School Approval: Curriculum Committee | November 15, 2017 |
| Dean's Approval: Dr. Greg Keefe | November 28, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

CALENDAR & CURRICULUM CHANGE

Motion #71

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

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

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

MOTION: That the course title and pre-requisite change for VHM 4840 Veterinary Chiropractic Techniques be approved as proposed.

| | |
|---|--|
| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
| <u>Reproduction</u> VHM 4840 Veterinary Chiropractic Techniques Pre-requisite: Fourth year standing in the DVM program and permission of the instructor. | <u>Revised</u> VHM 4840 Veterinary Chiropractic Techniques Pre-requisite: Fourth year standing in the DVM program and permission of the instructor. |

Rationale for Change: Revise the title to reflect course content and clarify pre-requisites to remove “permission of instructor”.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: None.

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Dr. Dan Hurnik | September 22, 2017 |
| Faculty/School Approval: Curriculum Committee | November 15, 2017 |
| Dean’s Approval: Dr. Greg Keefe | November 28, 2017 |
| Registrar’s Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #72

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Communications Management and Island Issues (IST 6200) be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | IST 6200: Communications Management and Island Issues |
| Description | This course examines the concepts, principles and application of interpersonal and small group communications, public relations, strategic planning, law, leadership and ethics and applies them to island organizations and governments. |
| Cross-Listing | |
| Prerequisite/Co-Requisite | |
| Credit(s) | 3 |
| Notation | |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Current students in the MA Island Studies thesis program may transfer and take this course under the conditions set out in the program proposal.

Resources Required: A complete budget is provided in the program proposal. The Library has indicated the need for resources specific to this course and these resources have been built in to the budget.

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

Instructors of some of the online courses may be affiliated with other institutions. Delivery of this course will require them to have an internet connection and the basic resources to deliver a course on-line. UPEI eLearning will provide assistance in developing and delivering this course.

| <u>Authorization</u> | <u>Date:</u> |
|---|---------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #72

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6200 Communications Management and Island Issues

Because Communications Studies is a field which the Library has not previously been asked to support, and is one in which there is a significant volume of publication activity, the Library is recommending an additional resource allocation to improve our holdings in this field. The Library's holdings were checked against those of two Canadian universities supporting undergraduate and graduate Communications research and teaching, Simon Fraser University and the University of Calgary. This comparison revealed notable gaps in UPEI Library collections: the UPEI Library did not, for example, hold any of the ~20 new Communications titles listed by the University of Calgary in a Spring 2016 update to its Communications subject guide. It should also be considered that any books acquired to support "hybrid" on-campus/online course will likely have to be licensed multi-user e-books, which will be more expensive than conventional book acquisitions. With this in mind, the Library has recommended the allocation of \$2,000 in the first year of the program, and \$1,000 in each of the ensuing 4 years to improve our Communications' holdings, primarily for book/e-book purchases.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

- One-time: \$2,000 For each of 4 consecutive years
- Annual: \$1,000
 - Per-year percentage increase in annual: _____

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

The "Library Support" allocation -- under Program Costs for the Program of which this course will be a part -- meets the above-stated requirement.

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 14, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

NEW COURSE PROPOSAL

Motion #73

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Theory and Practice of Island Research I (IST 6210) be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | IST 6210: Theory and Practice of Island Research I |
| Description | This course provides students with an opportunity to develop, integrate and apply their knowledge of island issues and theory in a specific focus area. Students will be involved in practical experiences with private, public or non-governmental organizations that deal with island issues. In-class discussions and discussion forums among students will assist students in developing an interdisciplinary and integrated approach to analysing these experiences. |
| Cross-Listing | Click here to enter text. |
| Prerequisite/Co-Requisite | Click here to enter text. |
| Credit(s) | 3 |
| Notation | Click here to enter text. |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Current students in the MA Island Studies thesis program may transfer and take this course under the conditions set out in the program proposal.

Resources Required: A complete budget is provided in the program proposal.

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

These experiential courses will be undertaken with the cooperation and partnership of agencies and organizations, some of which will be on PEI while others will be located at other sites. Students will be required to spend at least 36 hours of contact time at that agency or organization

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



NEW COURSE PROPOSAL

Motion #73

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6210 Theory and Practice of Island Research I

This course offering is in a subject area for which the Library is already performing ongoing collections development as part of its existing commitment to Island Studies. It should also be noted here that the Library has a long tradition of supporting research and teaching in many different disciplines, reflecting UPEI's diverse undergraduate (and, in recent decades, graduate) curriculum: this diversity in Library collections and resources should benefit students in the proposed course, increasing the range of options as they select focus areas for their practical experiences. The Library will require no additional budgetary allocation to support this course.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

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

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

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 14, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

NEW COURSE PROPOSAL

Motion #74

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Theory and Practice of Island Research II (IST 6220) be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | IST 6220: Theory and Practice of Island Research II |
| Description | This course provides students with an opportunity to develop, integrate and apply their knowledge of island issues and theory in a specific focus area that is developed collaboratively with private, public or non-governmental organizations. In-class discussions and discussion forums build on the knowledge gained earlier in the program, including in the introductory practical experience course (IST 6210). |
| Cross-Listing | |
| Prerequisite/Co-Requisite | |
| Credit(s) | 3 |
| Notation | |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Current students in the MA Island Studies thesis program may transfer and take this course under the conditions set out in the program proposal.

Resources Required: A complete budget is provided in the program proposal.

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

These experiential courses will be undertaken with the cooperation and partnership of agencies and organizations, some of which will be on PEI while others will be located at other sites. Students will be required to spend at least 36 hours of contact time at that agency or organization

Authorization

Date:

| | |
|---|-------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #74

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6220: Theory and Practice of Island Research II

This course offering is in a subject area for which the Library is already performing ongoing collections development as part of its existing commitment to Island Studies. It should also be noted here that the Library has a long tradition of supporting research and teaching in many different disciplines, reflecting UPEI's diverse undergraduate (and, in recent decades, graduate) curriculum: this diversity in Library collections and resources should benefit students in the proposed course, increasing the range of options as they select focus areas for their practical experiences. The Library will require no additional budgetary allocation to support this course.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

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

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

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 14, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

NEW COURSE PROPOSAL

Motion #75

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Islands and Tourism (IST 6230) be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | IST 6230: Islands and Tourism |
| Description | This course provides students with an interdisciplinary analysis of the nature of island tourism. It covers the motivations and marketing of island tourism, the development opportunities, impacts and challenges, mass tourism versus niche tourism and the application to different island contexts, including warm-water versus cold-water locations. |
| Cross-Listing | |
| Prerequisite/Co-Requisite | |
| Credit(s) | 3 |
| Notation | |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program. This is a core course for students in the Island Tourism focus area and may serve as an elective course for all other MA Island studies students.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Assuming space is available, current students in the MA Island Studies thesis program or in other focus areas of the proposed internship-based MA IS program may register for this course.

Resources Required: A complete budget is provided in the program proposal.

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

Instructors of some of the online courses may be affiliated with other institutions. Delivery of this course will require them to have an internet connection and the basic resources to deliver a course on-line. UPEI eLearning will provide assistance in developing and delivering this course.

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #75

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6230: Islands and Tourism

This course offering is in a subject area for which the Library is already performing ongoing collections development as part of its existing commitment to Island Studies; the Library also acquires tourism-related scholarly research materials through its support for the UPEI School of Business' programming in this field. The Library will require no additional budgetary allocation to support this course.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

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

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

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 19, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

NEW COURSE PROPOSAL

Motion #76

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Approaches to the Management of Island Tourism (IST 6240) be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | IST 6240: Approaches to the Management of Island Tourism |
| Description | This course explores the relationship between theory and practice in island tourism operations and tourism destinations. It will also examine the various ways that tourism impacts island communities throughout the world. The primary focus is on policies, designs, and strategies to mitigate the negative impacts and help tourism to become a sustainable and positive aspect of community development. Environmental, economic, cultural and social aspects of tourism will be considered. |
| Cross-Listing | |
| Prerequisite/Co-Requisite | |
| Credit(s) | 3 |
| Notation | |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program. This is a core course for students in the Island Tourism focus area and may serve as an elective course for all other MA Island studies students.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Assuming space is available, current students in the MA Island Studies thesis program or in other focus areas of the proposed internship-based MA IS program may register for this course.

Resources Required: A complete budget is provided in the program proposal.

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

Instructors of some of the online courses may be affiliated with other institutions. Delivery of this course will require them to have an internet connection and the basic resources to deliver a course on-line. UPEI eLearning will provide assistance in developing and delivering this course.

| <u>Authorization</u> | <u>Date:</u> |
|---|---------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #76

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6240: Approaches to the Management of Island Tourism

This course offering is in a subject area for which the Library is already performing ongoing collections development as part of its existing commitment to Island Studies; the Library also acquires tourism-related scholarly research materials through its support for the UPEI School of Business' programming in this field. The Library will require no additional budgetary allocation to support this course.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

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

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

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 14, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

NEW COURSE PROPOSAL

Motion #77

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Sustainability for Small Islands (IST 6250) be approved as proposed.

| | |
|---------------------------|--|
| Course Number and Title | IST 6250: Sustainability for Small Islands |
| Description | This course explores the concept of sustainability as it has been applied to small islands of the world. It will show how the concepts of vulnerability and resilience have been applied to better understand development and underdevelopment taking place on islands from a holistic perspective. It also examines island sustainability from an indigenous and islander perspective versus an 'outsider' perspective. |
| Cross-Listing | |
| Prerequisite/Co-Requisite | |
| Credit(s) | 3 |
| Notation | |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program. This is a core course for students in the Sustainable Island Communities focus area and may serve as an elective course for all other MA Island studies students.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Assuming space is available, current students in the MA Island Studies thesis program or in other focus areas of the proposed internship-based MA IS program may register for this course.

Resources Required: A complete budget is provided in the program proposal.

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

Instructors of some of the online courses may be affiliated with other institutions. Delivery of this course will require them to have an internet connection and the basic resources to deliver a course on-line. UPEI eLearning will provide assistance in developing and delivering this course.

| <u>Authorization</u> | <u>Date:</u> |
|---|---------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |

NEW COURSE PROPOSAL

Motion #77

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6250: Sustainability for Small Islands

This course offering is in a subject area for which the Library is already performing ongoing collections development as part of its existing commitment to Island Studies. The Library will require no additional budgetary allocation to support this course.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

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

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

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 14, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

NEW COURSE PROPOSAL

Motion #78

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Blue/Green Development Strategies for Small Islands (IST 6260) be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | IST 6260: Blue/Green Development Strategies for Small Islands |
| Description | Blue-green development is an approach that emphasizes the integration of marine and land-based resources and sectors, sustainable production and consumption, indigenous perspectives, diversification, clean technology, renewable energy and island entrepreneurship. This course examines and critiques this framework as a viable development path for small islands. |
| Cross-Listing | |
| Prerequisite/Co-Requisite | |
| Credit(s) | 3 |
| Notation | |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program. This is a core course for students in the Sustainable Island Communities focus area and may serve as an elective course for all other MA Island Studies students.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Assuming space is available, current students in the MA Island Studies thesis program or in other focus areas of the proposed internship-based MA IS program may register for this course.

Resources Required: A complete budget is provided in the program proposal.

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

Instructors of some of the online courses may be affiliated with other institutions. Delivery of this course will require them to have an internet connection and the basic resources to deliver a course on-line. UPEI eLearning will provide assistance in developing and delivering this course.

| Authorization | Date: |
|---|-------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



NEW COURSE PROPOSAL

Motion #78

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6260: Blue/Green Development Strategies for Small Islands

This course offering is in a subject area for which the Library is already performing ongoing collections development as part of its existing commitment to Island Studies. The Library will require no additional budgetary allocation to support this course.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

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

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

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 14, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

NEW COURSE PROPOSAL

Motion #79

Faculty/School: **Arts**

Department/Program(s): **Island Studies, Master of Arts**

MOTION: That a new course entitled Subnational Island Jurisdictions (IST 6270) be approved as proposed.

| | |
|---------------------------|---|
| Course Number and Title | IST 6270: Subnational Island Jurisdictions |
| Description | Subnational island jurisdictions (or SNIJs) are political island entities that are in a semi-autonomous relationship with other jurisdictions. It includes provinces, states, and overseas territories. This course describes the nature and evolution of SNIJs and explains their resilience in a post-colonial world. |
| Cross-Listing | |
| Prerequisite/Co-Requisite | |
| Credit(s) | 3 |
| Notation | Click here to enter text. |

This is: A Core Course

Grade Mode: Numeric (Standard)

Anticipated Enrolment: 22

Is there an Enrolment Cap: Yes

This course is part of a cohort program delivered online with a maximum of 25 students

Rationale for New Course: Part of a larger, more comprehensive and systematic expansion in the MA Island Studies program. This is a core course for students in the International Relations and Island Public Policy focus area and may serve as an elective course for all other MA Island Studies students.

Effective Date: May 2018

Implications for Other Programs: None.

Impact on Students Currently Enrolled: Assuming space is available, current students in the MA Island Studies thesis program or in other focus areas of the proposed internship-based MA IS program may register for this course.

Resources Required: A complete budget is provided in the program proposal.

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

Instructors of some of the online courses may be affiliated with other institutions. Delivery of this course will require them to have an internet connection and the basic resources to deliver a course on-line. UPEI eLearning will provide assistance in developing and delivering this course.

| <u>Authorization</u> | <u>Date:</u> |
|---|---------------------|
| Departmental Approval: Jim Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |



NEW COURSE PROPOSAL

Motion #79

LIBRARY RESOURCE REQUIREMENTS FOR A NEW COURSE PROPOSAL

IST 6270: Subnational Island Jurisdictions

This course offering is in a subject area for which the Library is already performing ongoing collections development as part of its existing commitment to Island Studies. The Library will require no additional budgetary allocation to support this course.

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

Existing resources:

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

New resources needed to support this proposal:

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

Summary of additional budget allocation required:

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

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

| | |
|--|-------------------|
| Date Received by Liaison/Collections Librarian | December 14, 2016 |
| Name of Librarian to be Contacted for Questions | Simon Lloyd |
| Approved by University Librarian or Designate - Name | Donald Moses |
| Date Approved by UL or Designate | December 21, 2016 |

CALENDAR AND CURRICULUM CHANGE

Motion #80

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

Faculty/School/Department: **Arts**

Department/Program(s)/Academic Regulations: **Master of Arts Island Studies**

MOTION: To approve the following calendar entry change for the Master of Arts Island Studies program to include thesis and course based options.

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p><u>Reproduction</u> Master of Arts Program (MA)</p> <p>A) PROGRAM REQUIREMENTS The MA degree of the University of Prince Edward Island requires the demonstration of a reasonable mastery of a concentrated field of study. The latter is attested by the achieving of satisfactory standings in the minimum number of graduate courses required by the respective Faculty, the completion of a research project, and the writing of a thesis based upon the research.</p> <p>Graduate students will register in the interdisciplinary MA program in Island Studies, under the Dean of Arts. Each student's program of study will be designed in consultation with the Program Administrator and student's Supervisor.</p> <p>There will be considerable interaction and co-operation among the departments to provide courses and research facilities to meet the needs of individual students and their research projects. In addition to the "General Regulations for Graduate Programs," described above, the following regulations apply specifically to the Master's degree:</p> <p>Residency Requirements Normally, at least two semesters of full-time study in residence at the University must be devoted to the Master's program if the student is admitted as a regular student. Upon completion of the residency requirement, the student is then eligible to become a candidate for the MA degree. Normally, the thesis must be formally submitted or the program be otherwise complete within 48 months of the</p> | <p><u>Revised</u> Master of Arts Program (MA) http://upej.ca/mais</p> <p>A) PROGRAM REQUIREMENTS <u>Students enrolled in the graduate program are required to choose a thesis-based option or a course-based option.</u> The Both MA degree options of the University of Prince Edward Island requires- the demonstration of a reasonable mastery of a concentrated field of study. The latter is as attested by the achieving of a satisfactory standings- in the minimum number of graduate courses required by the respective Faculty, the completion of a research project, and the writing of a thesis based upon the research <u>or the successful completion of the courses depending on the program option chosen.</u></p> <p>Graduate students will register in the interdisciplinary MA program in Island Studies, under the Dean of Arts. Each student's program of study will be designed in consultation with the Program Administrator and student's Supervisor (<u>for the thesis option</u>) or <u>Student Coordinator (for the course-based option).</u></p> <p>There will be considerable interaction and co-operation among the departments to provide courses and research facilities to meet the needs of individual students and their research projects. In addition to the "General Regulations for Graduate Programs," described above, the following regulations apply specifically to the Master's degree:</p> <p>Residency Requirements Normally, at least two semesters of full-time study in residence at the University must be devoted to the <u>thesis-based</u> Master's program if the student is admitted as a regular student. Upon completion of the residency requirement, the student is then eligible to become a candidate for the MA degree. Normally, the thesis must be formally submitted or the program be otherwise complete within 48 months of the completion of the</p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| <p>completion of the residency requirement. Departure from these normal requirements requires approval from the Graduate Studies Committee.</p> <p>B) COURSES Prescribed Studies The proportion of weight attached to the research and thesis may vary, even within a department. Accordingly, the number of courses and/or general examinations may correspondingly vary. In no case, however, will the minimum requirements be less than those outlined in the following two paragraphs. For graduate credit, the courses selected must be acceptable to the Department and the Graduate Studies Committee. The candidate must maintain an average grade of at least a “B” standing (see Grades in General Regulations section) in the substantive courses outlined below in order to maintain registration in the program.</p> <p>In the Faculty of Arts, students are required to take a minimum of three courses at the graduate level totalling a minimum of 9 credit hours. Students may take only two Directed Studies courses for credit. Students lacking an Honours degree or background in one or more areas may, at the discretion of the Supervisory Committee, be required to take the appropriate undergraduate level course(s). For the MA in Island Studies, six courses in addition to the thesis are required owing to the interdisciplinary nature of the program. Themes and Perspectives in Island Studies (IST 601) and Research Methods and Design for Island Studies (IST 604) are required courses and must be taken in the student’s first year.</p> <p>Additional Courses In addition to these prescribed studies, the candidate may undertake to achieve satisfactory standings in courses supportive of the special discipline. These courses may be at either the undergraduate or the graduate level.</p> <p>When a student is required to register in a seminar or colloquium course in more than one semester, the record will show a grade or a designation of “In Progress” for semesters prior to completion of the course and “Pass” or “Fail” for the final semester. With the consent of the Supervisory Committee, and of the instructor and the Department Chair concerned (or the Dean of Arts in the case of the MA in Island Studies), a student may register for, and audit, all or</p> | <p>residency requirement. Departure from these normal requirements requires approval from the Graduate Studies Committee.</p> <p><u>For the course-based Master’s program, students would be expected to study at the University for two summer sessions, one at the beginning of the program and the second at the end of the second year of the program.</u></p> <p><u>Program Transfer Options</u> <u>Students initially registered in either the thesis or course-based program options may transfer between programs. Those initially in the thesis option would be required to complete all of the requirements of the course-based program, including the two experiential courses, IST 6200 Communications Management and Island Issues and the three focus area required courses. Those students initially in the course-based program may apply to transfer to the thesis-based option after completing four Island Studies courses including IST 6010 and IST 6040. All other Island Studies courses are transferable except for the two practical experience courses (IST 6210 and IST6220). An application consisting of a thesis proposal, a transcript of grades and written agreement from a proposed supervisor must be submitted to the program Admissions Committee for approval.</u></p> <p><u>THESIS-BASED OPTION</u> B) COURSES Prescribed Studies The proportion of weight attached to the research and thesis may vary, even within a department. Accordingly, the number of courses and/or general examinations may correspondingly vary. In no case, however, will the minimum requirements be less than those outlined in the following two paragraphs. For graduate credit, the courses selected must be acceptable to the Department and the Graduate Studies Committee. The candidate must maintain an average grade of at least a “B” standing (see Grades in General Regulations section) in the substantive courses outlined below in order to maintain registration in the program.</p> <p>In the Faculty of Arts, students are required to take a minimum of three courses at the graduate level totalling a minimum of 9 credit hours. Students may take only two Directed Studies courses for credit. Students lacking an Honours degree or background in one or more areas may, at the discretion of the Supervisory Committee, be required to take the appropriate undergraduate level</p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|---|
| <p>part of a course. It is understood that the student will attend lectures as prescribed, but will not write any examination or receive any grade. Such a course may be recorded as an additional course, identified by AUD.</p> <p>C) THE THESIS</p> <p>Research Normally, the equivalent of at least two full-time semesters must be devoted to research in fulfilment of the thesis requirement. Summers during which research work is actively conducted may be counted as research semester equivalents, even though courses would not normally be offered at that time. In order to avoid undue prolongation of the time required to complete the degree, the research topic should be identified early and approved by the Supervisory Committee. Research involving the use of animals must follow the Guidelines of the Canadian Council on Animal Care. Research involving human participants must adhere to the Tri-Council policy on research ethics and be approved by the University’s Research Ethics Board.</p> <p>Thesis Each candidate for the degree of Master of Arts is required to submit a thesis based upon the research conducted under supervision as described above. The thesis must demonstrate the candidate’s capacity for original and independent work, and should include a critical evaluation of work which has previously been done in the field of his or her research. The thesis should emphasize any new conclusions which may be drawn from the candidate’s own research.</p> <p>General specifications as to paper, format, order, and binding are available from the Office of the Program Administrator.</p> <p>Procedures The thesis may be handed in at any time of the year, but candidates must bear in mind the desirability of having the final examination as much in advance of the deadline date for thesis submission as possible. Candidates are advised to inform themselves of the deadlines schedule, a copy of which may be obtained in the Office of the Program Administrator. It is desirable that each candidate initiate discussion about examination dates with the Supervisor early in the final semester.</p> | <p>course(s). For the MA in Island Studies, six courses in addition to the thesis are required owing to the interdisciplinary nature of the program. Themes and Perspectives in Island Studies (IST-601) and Research Methods and Design for Island Studies (IST-604) are required courses and must be taken in the student’s first year.</p> <p><u>Compulsory Courses (2 required courses)</u> <u>Island Studies 6010 Themes and Perspectives in Island Studies</u> <u>Island Studies 6040 Research Methods and Design for Island Studies</u></p> <p>Additional Elective Courses In addition to these prescribed studies, the candidate may undertake to achieve satisfactory standings in courses supportive of the special discipline. These courses may be at either the undergraduate or the graduate level. The standings obtained in them will not affect the average grade of the prescribed studies.</p> <p>When a student is required to register in a seminar or colloquium course in more than one semester, the record will show a grade or a designation of “In Progress” for semesters prior to completion of the course and “Pass” or “Fail” for the final semester. With the consent of the Supervisory Committee, and of the instructor and the Department Chair concerned (or the Dean of Arts in the case of the MA in Island Studies), a student may register for, and audit, all or part of a course. It is understood that the student will attend lectures as prescribed, but will not write any examination or receive any grade. Such a course may be recorded as an additional course, identified by AUD.</p> <p><u>Elective Courses (4 courses required)</u> <u>Island Studies 6090 Migration and Movement Among Small Islands</u> <u>Island Studies 6110 Strategies for Economic Development for Small Islands</u> <u>Island Studies 6120 International Relations of Small Island States</u> <u>Island Studies 6130 Political Ecology of Small Islands</u> <u>Island Studies 6140 Islandness: Culture, Change, and Identity on Small Islands</u> <u>Island Studies 6150 Public Policy in Small Islands</u> <u>Island Studies 6160 Directed Studies</u> <u>Island Studies 6170 Special Topics</u> <u>Island Studies 6180 Colonial and Postcolonial Discourse</u></p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>The candidate should keep in close touch with the Supervisor and the Supervisory Committee throughout the preparation of the thesis. The final draft of the thesis, after it has been reviewed by all members of the Supervisory Committee, is sent when ready for examination to the members of the Master’s Examination Committee (see below).</p> <p>Following the Master’s Examination, the candidate, if successful, arranges for the preparation of the thesis in final form, and for its submission to the Program Administrator (see below). The thesis in final form must include any minor corrections or revisions indicated during the Examination. Approval of the thesis takes the form of a Certificate of Approval, signed by the Examination Committee.</p> <p>The Master’s Examination The final oral examination, devoted chiefly to the defence of the thesis, is a departmental examination identified as the Master’s Examination and carried out by the Master’s Examination Committee.</p> <p>In the Faculty of Arts, the Master’s Examination Committee normally consists of three members of the Supervisory Committee, including the Supervisor of the candidate’s research, who will chair the Master’s Examination Committee on behalf of the Dean of Arts. The Examination Committee also includes an External Examiner from another university or research organization who has expertise in the student’s field of research and is recommended for approval by the Supervisor or Supervisory Committee to the Coordinator and Dean.</p> <p>The Department Chair (or the Dean of Arts, in the case of the MA in Island Studies) selects the Examination Committee at the request of the Supervisor and is responsible for notifying the Program Administrator of its composition. The Examination is normally open to the public; however, members of the audience may question the candidate only upon invitation of the Chair of the Committee. The Examination is passed and the thesis approved in principle if there is no more than one negative vote, an abstention being regarded as a negative vote. The report, from the Department Chair (or the Dean of Arts, in the case of the MA in Island Studies) to the Program Administrator, records the result as “unsatisfactory,” or “satisfactory”. If the result is “unsatisfactory,” the candidate may be given the</p> | <p><u>Theories: An Introduction</u> <u>Island Studies 6190 Environmental Governance</u> <u>Island Studies 6200 Communications Management and Island Issues</u> <u>Island Studies 6230 Islands and Tourism</u> <u>Island Studies 6240 Approaches to the Management of Island Tourism</u> <u>Island Studies 6250 Sustainability for Small Islands</u> <u>Island Studies 6260 Blue/Green Development Strategies for Small Islands</u> <u>Island Studies 6270 Subnational Island Jurisdictions</u></p> <p>C) THE THESIS</p> <p>Research Normally, the equivalent of at least two full-time semesters must be devoted to research in fulfilment of the thesis requirement. Summers during which research work is actively conducted may be counted as research semester equivalents, even though courses would not normally be offered at that time. In order to avoid undue prolongation of the time required to complete the degree, the research topic should be identified early and approved by the Supervisory Committee. Research involving the use of animals must follow the Guidelines of the Canadian Council on Animal Care. Research involving human participants must adhere to the Tri-Council policy on research ethics and be approved by the University’s Research Ethics Board.</p> <p>Thesis Each candidate for the degree of Master of Arts is required to submit a thesis based upon the research conducted under supervision as described above. The thesis must demonstrate the candidate’s capacity for original and independent work, and should include a critical evaluation of work which has previously been done in the field of his or her research. The thesis should emphasize any new conclusions which may be drawn from the candidate’s own research.</p> <p>General specifications as to paper, format, order, and binding are available from the Office of the Program Administrator.</p> <p>Procedures The thesis may be handed in at any time of the year, but candidates must bear in mind the desirability of having the final examination as much in advance of the</p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>opportunity by the Master’s Examination Committee of a second attempt. A second “unsatisfactory” result will terminate candidacy at this university.</p> <p>D) GRADUATE COURSES</p> <p>IST 601 THEMES AND PERSPECTIVES IN ISLAND STUDIES This course explores contemporary and historical research questions and issues central to the interdisciplinary and comparative study of small islands and archipelagos. Topics include islands’ identity, characteristics, challenges, opportunities, cultures, geography, economics, history, environmental concerns, and governance systems. SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 604 RESEARCH METHODS AND DESIGN FOR ISLAND STUDIES Introduction to research methods and research design as they pertain to study of small islands. The non-availability of island-specific data in non-island jurisdictions and researchers’ perspectives and points of view will be considered. PREREQUISITES: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 609 MIGRATION AND MOVEMENT AMONG SMALL ISLANDS This course examines the diverse issues arising from migration and movement among and within small islands. Topics will include the creation of small-island societies through successive and often competing waves of colonization by migrants, adventurers, and/or conquerors, as well as the complex two-way traffic that generally characterizes the subsequent development of island societies. Case studies of specific small islands, as well as comparative assessment of different small-island cases, provide opportunities to investigate the themes discussed in a concrete and practical manner. PREREQUISITE: Admission into a UPEI graduate program or eligibility for graduate studies</p> | <p>deadline date for thesis submission as possible. Candidates are advised to inform themselves of the deadlines schedule, a copy of which may be obtained in the Office of the Program Administrator. It is desirable that each candidate initiate discussion about examination dates with the Supervisor early in the final semester.</p> <p>The candidate should keep in close touch with the Supervisor and the Supervisory Committee throughout the preparation of the thesis. The final draft of the thesis, after it has been reviewed by all members of the Supervisory Committee, is sent when ready for examination to the members of the Master’s Examination Committee (see below).</p> <p>Following the Master’s Examination, the candidate, if successful, arranges for the preparation of the thesis in final form, and for its submission to the Program Administrator (see below). The thesis in final form must include any minor corrections or revisions indicated during the Examination. Approval of the thesis takes the form of a Certificate of Approval, signed by the Examination Committee.</p> <p>The Master’s Examination The final oral examination, devoted chiefly to the defence of the thesis, is a departmental examination identified as the Master’s Examination and carried out by the Master’s Examination Committee.</p> <p>In the Faculty of Arts, the Master’s Examination Committee normally consists of three members of the Supervisory Committee, including the Supervisor of the candidate’s research, who will chair the Master’s Examination Committee on behalf of the Dean of Arts. The Examination Committee also includes an External Examiner from another university or research organization who has expertise in the student’s field of research and is recommended for approval by the Supervisor or Supervisory Committee to the Coordinator and Dean.</p> <p>The Department Chair (or the Dean of Arts, in the case of the MA in Island Studies) selects the Examination Committee at the request of the Supervisor and is responsible for notifying the Program Administrator of its composition. The Examination is normally open to the public; however, members of the audience may question the candidate only upon invitation of the Chair</p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 611 STRATEGIES FOR ECONOMIC DEVELOPMENT FOR SMALL ISLANDS Using case studies, this course introduces the comparative study of economic development strategies applicable to small-island economics. PREREQUISITES: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 612 THE INTERNATIONAL RELATIONS OF SMALL ISLAND STATES Small-island states share a wide range of issues that are either exclusive to small islands or of particular salience for these island states. This course explores in-depth the international agenda for small-island states, the channels and resources involved in their international relations, and the attention and commitment of metropolitan states and international organizations. PREREQUISITE: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 613 THE POLITICAL ECOLOGY OF SMALL ISLANDS This course examines the intersections among politics, policy, and island environments. The tension between external economic pressures and trans-jurisdictional environmental protection mechanisms, with particular emphasis on topics such as global warming, fishing stocks, and biodiversity, is examined. Other factors including cultural and political forces that encourage development despite environmental risks also are explored. PREREQUISITE: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> | <p>of the Committee. The Examination is passed and the thesis approved in principle if there is no more than one negative vote, an abstention being regarded as a negative vote. The report, from the Department Chair (or the Dean of Arts, in the case of the MA in Island Studies) to the Program Administrator, records the result as “unsatisfactory,” or “satisfactory”. If the result is “unsatisfactory,” the candidate may be given the opportunity by the Master’s Examination Committee of a second attempt. A second “unsatisfactory” result will terminate candidacy at this university.</p> <p><u>COURSE-BASED OPTION</u> <u>Students enrolled in this option will register in one of three focus areas: Island Tourism, Sustainable Island Communities or International Relations and Island Public Policy. Students in all focus areas will complete eight compulsory courses and two elective courses, as described below.</u></p> <p><u>Compulsory Courses for all Focus Areas (5 required courses)</u> <u>Island Studies 6010 Themes and Perspectives in Island Studies</u> <u>Island Studies 6040 Research Methods and Design for Island Studies</u> <u>Island Studies 6200 Communications Management and Island Issues</u> <u>Island Studies 6210 Theory and Practice of Island Research I</u> <u>Island Studies 6220 Theory and Practice of Island Research II</u></p> <p><u>Additional Compulsory Courses in Island Tourism Focus Area (3 required courses)</u> <u>Island Studies 6110 Strategies for Economic Development for Small Islands</u> <u>Island Studies 6230 Islands and Tourism</u> <u>Island Studies 6240 Approaches to the Management of Island Tourism</u></p> <p><u>Additional Compulsory Courses in Sustainable Island Communities Focus Area (3 required courses)</u> <u>Island Studies 6130 Political Ecology of Small Islands</u> <u>Island Studies 6250 Sustainability for Small Islands</u> <u>Island Studies 6260 Blue/Green Development Strategies for Small Islands</u></p> <p><u>Additional Compulsory Courses in International Relations and Island Public Policy Focus Area (3</u></p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|--|--|
| <p>IST 614 ISLANDNESS: CULTURE, CHANGE, AND IDENTITY ON SMALL ISLANDS In this course students investigate the effects of insularity on small-island populations. The relationship between the population’s identity (culture, ethnicity, self-confidence) and its economic and political choices is examined. Students examine history, folklore, art, literature, anthropology, economics, and political theories in the context of “islandness.” PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER-HOURS OF CREDIT: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 615 PUBLIC POLICY IN SMALL ISLANDS This course examines the determinants or causes of public policy in small-island jurisdictions. Students familiarize themselves with various models for understanding the causes of public policy and with selected frameworks for comparing policy across jurisdictions. PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 616 DIRECTED STUDIES Under the supervision of a faculty member, a graduate student independently pursues an area of interest in-depth. The course includes a thorough literature review of the topic and directed research. NOTE: Students are permitted to take no more than two Directed Studies courses towards the Master of Arts in Island Studies. PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER-HOURS OF CREDIT: 3</p> <p>IST 617 SPECIAL TOPICS Creation of a course code for special topics offered by Master of Arts.</p> <p>IST 618 COLONIAL AND POSTCOLONIAL DISCOURSE THEORIES: AN INTRODUCTION Students will be introduced to the basic elements of colonial and postcolonial discourse analysis, an</p> | <p><u>required courses)</u> <u>Island Studies 6120 International Relations of Small Island States</u> <u>Island Studies 6150 Public Policy in Small Islands</u> <u>Island Studies 6270 Subnational Island Jurisdictions</u></p> <p><u>Elective Courses for all Focus Areas (2 courses required)</u> <u>Island Studies 6090 Migration and Movement Among Small Islands</u> <u>Island Studies 6140 Islandness: Culture, Change, and Identity on Small Islands</u> <u>Island Studies 6180 Colonial and Postcolonial Discourse Theories: An Introduction</u> <u>Island Studies 6190 Environmental Governance</u></p> <p><u>In addition to these Island Studies elective courses, and in order to satisfy their elective requirements, students in each of the focus areas may take any of the compulsory courses in the other two focus areas. All compulsory and most elective courses in the course-based program except for IST6040 and IST6200 will be delivered online. Not all courses identified as electives within the course-based option will be provided via online delivery. Check with the Program Coordinator for details.</u></p> <p>D) GRADUATE COURSES</p> <p>IST 6010 THEMES AND PERSPECTIVES IN ISLAND STUDIES This course explores contemporary and historical research questions and issues central to the interdisciplinary and comparative study of small islands and archipelagos. Topics include islands’ identity, characteristics, challenges, opportunities, cultures, geography, economics, history, environmental concerns, and governance systems. SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6040 RESEARCH METHODS AND DESIGN FOR ISLAND STUDIES Introduction to research methods and research design as they pertain to study of small islands. The non-availability of island-specific data in non-island jurisdictions and researchers’ perspectives and points of view will be considered. PREREQUISITES: Admission into a UPEI graduate</p> |



CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| <p>interdisciplinary field of study. Some of the prominent practitioners and debates in the field will be considered, as well as some of the cultural, historical, and political reasons for its emergence. A particular emphasis will be placed on colonialism and postcolonialism in island contexts.</p> <p>PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER HOURS OF CREDIT: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 619 ENVIRONMENTAL GOVERNANCE (See Environmental Studies 411)</p> <p>IST 699 THESIS These topics will ordinarily require framing in a regional and comparative island studies context, with students then focusing on an issue or issues as it impacts on: one particular island; two or more islands; or the relationship between island and mainland. Students will be required to present a thesis proposal and their thesis results in a seminar format prior to their oral examination. PREREQUISITE: Successful completion of Island Studies 601, 604, and one other graduate level 3 credit-hour course that is part of their program of their program of studies.</p> | <p>program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6090 MIGRATION AND MOVEMENT AMONG SMALL ISLANDS This course examines the diverse issues arising from migration and movement among and within small islands. Topics will include the creation of small-island societies through successive and often competing waves of colonization by migrants, adventurers, and/or conquerors, as well as the complex two-way traffic that generally characterizes the subsequent development of island societies. Case studies of specific small islands, as well as comparative assessment of different small-island cases, provide opportunities to investigate the themes discussed in a concrete and practical manner. PREREQUISITE: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6110 STRATEGIES FOR ECONOMIC DEVELOPMENT FOR SMALL ISLANDS Using case studies, this course introduces the comparative study of economic development strategies applicable to small-island economics. PREREQUISITES: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6120 THE INTERNATIONAL RELATIONS OF SMALL ISLAND STATES Small-island states share a wide range of issues that are either exclusive to small islands or of particular salience for these island states. This course explores in-depth the international agenda for small-island states, the channels and resources involved in their international relations, and the attention and commitment of metropolitan states and international organizations. PREREQUISITE: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3</p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|---|
| | <p>HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6130 THE POLITICAL ECOLOGY OF SMALL ISLANDS This course examines the intersections among politics, policy, and island environments. The tension between external economic pressures and trans-jurisdictional environmental protection mechanisms, with particular emphasis on topics such as global warming, fishing stocks, and biodiversity, is examined. Other factors including cultural and political forces that encourage development despite environmental risks also are explored. PREREQUISITE: Admission into a UPEI graduate program or eligibility for graduate studies SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6140 ISLANDNESS: CULTURE, CHANGE, AND IDENTITY ON SMALL ISLANDS In this course students investigate the effects of insularity on small-island populations. The relationship between the population's identity (culture, ethnicity, self-confidence) and its economic and political choices is examined. Students examine history, folklore, art, literature, anthropology, economics, and political theories in the context of "islandness." PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER-HOURS OF CREDIT: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6150 PUBLIC POLICY IN SMALL ISLANDS This course examines the determinants or causes of public policy in small-island jurisdictions. Students familiarize themselves with various models for understanding the causes of public policy and with selected frameworks for comparing policy across jurisdictions. PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER-HOURS OF CREDIT: 3 HOURS PER WEEK: 3 LECTURE: 2 SEMINAR: 1</p> |



CALENDAR AND CURRICULUM CHANGE

Motion #80

| <u>Reproduction of Current Calendar Entry</u> | <u>Proposed revision with changes underlined and deletions indicated clearly</u> |
|---|--|
| | <p>IST 6160 DIRECTED STUDIES Under the supervision of a faculty member, a graduate student independently pursues an area of interest in-depth. The course includes a thorough literature review of the topic and directed research. NOTE: Students are permitted to take no more than two Directed Studies courses towards the Master of Arts in Island Studies. PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER-HOURS OF CREDIT: 3</p> <p>IST 6170 SPECIAL TOPICS Creation of a course code for special topics offered by Master of Arts.</p> <p>IST 6180 COLONIAL AND POSTCOLONIAL DISCOURSE THEORIES: AN INTRODUCTION Students will be introduced to the basic elements of colonial and postcolonial discourse analysis, an interdisciplinary field of study. Some of the prominent practitioners and debates in the field will be considered, as well as some of the cultural, historical, and political reasons for its emergence. A particular emphasis will be placed on colonialism and postcolonialism in island contexts. PREREQUISITE: Admission into a UPEI graduate program, or eligibility for graduate studies. SEMESTER HOURS OF CREDIT: 3 LECTURE: 2 SEMINAR: 1</p> <p>IST 6190 ENVIRONMENTAL GOVERNANCE (See Environmental Studies 411)</p> <p><u>IST 6200: COMMUNICATIONS MANAGEMENT AND ISLAND ISSUES</u> <u>This course examines the concepts, principles and application of interpersonal and small group communications, public relations, strategic planning, law, leadership and ethics and applies them to island organizations and governments.</u> <u>HOURS OF CREDIT: 3</u></p> <p><u>IST 6210: THEORY AND PRACTICE OF ISLAND RESEARCH I</u> <u>This course provides students with an opportunity to develop, integrate and apply their knowledge of island issues and theory in a specific focus area. Students will</u></p> |



CALENDAR AND CURRICULUM CHANGE

Motion #80

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|--|
| | <p><u>be involved in practical experiences with private, public or non-governmental organizations that deal with island issues. In-class discussions and discussion forums among students will assist students in developing an interdisciplinary and integrated approach to analysing these experiences.</u> HOURS OF CREDIT: 3</p> <p><u>IST 6220: THEORY AND PRACTICE OF ISLAND RESEARCH II</u> <u>This course provides students with an opportunity to develop, integrate and apply their knowledge of island issues and theory in a specific focus area that is developed collaboratively with private, public or non-governmental organizations. In-class discussions and discussion forums build on the knowledge gained earlier in the program, including in the introductory experiential course (IST 6210).</u> HOURS OF CREDIT: 3</p> <p><u>IST 6230: ISLANDS AND TOURISM</u> <u>This course provides students with an interdisciplinary analysis of the nature of island tourism. It covers the motivations and marketing of island tourism, the development opportunities, impacts and challenges, mass tourism versus niche tourism and the application to different island contexts, including warm-water versus cold-water locations.</u> HOURS OF CREDIT: 3</p> <p><u>IST 6240: APPROACHES TO THE MANAGEMENT OF ISLAND TOURISM</u> <u>This course explores the relationship between theory and practice in island tourism operations and tourism destinations. It will also examine the various ways that tourism impacts island communities throughout the world. The primary focus is on policies, designs, and strategies to mitigate the negative impacts and help tourism to become a sustainable and positive aspect of community development. Environmental, economic, cultural and social aspects of tourism will be considered.</u> HOURS OF CREDIT: 3</p> <p><u>IST 6250: SUSTAINABILITY FOR SMALL ISLANDS</u> <u>This course explores the concept of sustainability as it has been applied to small islands of the world. It will show how the concepts of vulnerability and resilience have been applied to better understand development and underdevelopment taking place on islands from a</u></p> |

CALENDAR AND CURRICULUM CHANGE

Motion #80

| Reproduction of Current Calendar Entry | Proposed revision with changes underlined and deletions indicated clearly |
|--|---|
| | <p><u>holistic perspective. It also examines island sustainability from an indigenous and islander perspective versus an 'outsider' perspective.</u> <u>HOURS OF CREDIT: 3</u></p> <p><u>IST 6260: BLUE/GREEN DEVELOPMENT STRATEGIES FOR SMALL ISLANDS</u> <u>Blue-green development is an approach that emphasizes the integration of marine and land-based resources and sectors, sustainable production and consumption, indigenous perspectives, diversification, clean technology, renewable energy and island entrepreneurship. This course examines and critiques this framework as a viable development path for small islands.</u> <u>HOURS OF CREDIT: 3</u></p> <p><u>ISLAND STUDIES 6270: SUBNATIONAL ISLAND JURISDICTIONS</u> <u>Subnational island jurisdictions (or SNIJs) are political island entities that are in a semi-autonomous relationship with other jurisdictions. It includes provinces, states, and overseas territories. This course describes the nature and evolution of SNIJs and explains their resilience in a post-colonial world.</u> <u>HOURS OF CREDIT: 3</u></p> <p><u>IST 6990 THESIS</u> These topics will ordinarily require framing in a regional and comparative island studies context, with students then focusing on an issue or issues as it impacts on: one particular island; two or more islands; or the relationship between island and mainland. Students will be required to present a thesis proposal and their thesis results in a seminar format prior to their oral examination. <u>PREREQUISITE: Successful completion of Island Studies 6010, 6040, and one other graduate level 3 credit-hour course that is part of their program of their program of studies.</u></p> |

Rationale for Change: The rationale for these changes is contained in the accompanying proposal. These reflect a revision to the MA Island Studies program to include a course-based option.

Effective Date: May 2017

Implications for Other Programs: There are no implications for other programs as a result of these proposed changes.

Impact on Students Currently Enrolled: There is language in the proposed revisions that will allow students in the existing thesis-based MA Island Studies program to transfer to the course-based option.



CALENDAR AND CURRICULUM CHANGE

Motion #80

| <i>Authorization</i> | <i>Date:</i> |
|---|---------------------|
| Departmental Approval: James Randall | November 28, 2016 |
| Dean's Approval: Neb Kujundzic | December 12, 2017 |
| Graduate Studies Dean's Approval: Larry Hammell | December 12, 2017 |
| Registrar's Office Approval: Pam McGuigan | November 10, 2017 |
| APCC Meeting Date Approval | January 2, 2018 |