Minutes of the First Meeting of Senate
Friday, September 16, 2016
3:00 – 5:00 pm
Room 242, McDougall Hall

Present: A. Abd-El-Aziz (Chair), B. Awosile, R. Bissessur, A. Braithwaite, L. Chilton, G. Conboy, J. Doiron, M. Doyle, L. Edwards, N. Etkin, R. Gilmour, K. Gottschall-Pass, N. Hood, G. Irvine, Z. Jarvis, G. Jiwani, C. Kamunde, G. Keefe, K. Kielly, J. Krause, N. Kujundzic, S. Lee, R. MacDonald, A. MacFarlane, D. MacLellan, T. Mady, D. Moses, C. Murray, M. Murray, S. Myers, J. Podger, J. Rix, C. Ryan, N. Saad, J. Sentance, O. Shaw, M. van den Heuvel and S. Wilfeard

Regrets: C. Parker, J. Preston and S. St. Hillaire

Absent: P. Foley and G. Lindsay

Recorder: D. MacLean, Administrative Assistant to Senate

President Alaa Abd-El-Aziz called the meeting to order at 3:05 p.m. and thanked everyone for coming.

1. Approval of Agenda
MOTION (L. Edwards/J. Sentance) to approve the agenda as presented. CARRIED

2. Approval of Minutes

Senate meeting – April 1, 2016
MOTION (J. Rix/B. Awosile) to approve the minutes of April 1, 2016. CARRIED

Senate Meeting – May 2, 2016
MOTION (D. Moses/D. MacLellan) to approve the minutes of May 2, 2016. CARRIED

3. Introduction of New Senators
President Abd-El-Aziz introduced new Senators:

Dr. Gulrose Jiwani, Dean, School of Nursing
Dr. Tarek Mady, School of Business (three-year term)
Dr. Christina Murray, School of Nursing (three-year term)
Dr. Collins Kamunde, Biomedical Sciences, AVC (three-year term)

The President also welcomed the return of a number of senators who were on leave:

Dr. Jason Doiron, Pyschology Department
Dr. Michael van den Heuvel, Biology Department
Professor Amy MacFarlane, School of Business

4. Business Arising

a) **Update on 2016 Graduating Class**

President Abd-El-Aziz provided Senators with the following information:

In May, 2016, 930 students were approved by Senate for convocation. Through the enabling motion, an additional 10 students were approved for graduation since that time. Of these 10 students, there were three (3) additional graduates from the Faculty of Arts, five (5) additional graduates from the Faculty of Science, and two (2) additional graduates from the School of Business. The total 2016 graduating class is 940 students. The following comparison numbers were provided: 2014 – 1014 students graduated; 2015 – 941 students graduated; and, 2016 – 940 students graduated.

b) **Senate Dates**

The Senate Steering and Nominating Committee discussed the Senate meeting dates for the 2016-2017 academic year and noted that the scheduled meetings for the fall are October 14, November 4 and December 2. Upon review, it was further noted that there is only a three-week time period between October 14 and November 4, providing little time to prepare for the next meeting. Therefore, it was proposed that the November 4 meeting be cancelled, and a new meeting be created for November 18. With only two weeks then between November 18 and December 2, it was suggested that the December 2 meeting be cancelled as well. Should another meeting of Senate be deemed necessary, another Senate date will be established in the academic year.

MOTION (L. Edwards/C. Ryan) to approve the removal of November 4, addition of November 18 and removal of December 2 Senate meeting dates. CARRIED

5. President's Report

a) Preliminary Enrolment Overview

The President shared the following information with Senators.

Fall 2016 Preliminary enrolment and course registrations (as of September 16) and compared to Fall 2015 (as of September 17, 2015)

1. Total headcount: 4,417, up from last year (by 2.1% or 90 more students). Full-time: 3,974, up by 1.8% (70 more students); Part-time: 443, up by 4.7% (20 more students).

2. Total undergraduates in the Arts, Business, Science, Nursing and Unclassified: 3,648, up by 2.6% or 92 more students.

3. DVM: 254, up by 0.8% (2 more students); BEd and certificate in Education: 89, up by 1.1% (1 more student).

4. Total graduate students: 426, down by 1.2% (5 fewer students).

5. International students: 939, up by 18.1% (144 more students), representing 68 countries/regions and accounting for 21% of total student body.

6. Total course registrations: 17,451, up by 1.7% or 300 more registrations.

A question arose in relation to the total number of undergraduates and how they break down into the various faculties and schools. The President provided the breakdown below but indicated that the official numbers will not be available from the Association of Atlantic Universities (AAU) until mid-

October: Arts +2%; Science +5%; Nursing +2%; AVC +1%; Business -4.5%; and, Education +2%.

Dean Krause indicated that the School of Business is working on a strategic plan and that the -4.5% does not reflect the fact that there has been an increase in summer course offerings. This leads to degree completion in three years instead of four.

The President indicated that we continue to hold healthy numbers overall but acknowledged that recruitment strategies are being developed and revised, as required, to reflect that competition is intense locally, regionally and internationally. An Enrolment Working Group has been struck further to the Academic Plan and the data collected will assist with more informed decision-making as we go forward.

b) Course Discontinuation Dates and Tuition Refund

The President informed Senators that the Registrar and the Student Union Executive reviewed the course registration period and the course discontinuation dates. They are recommending the following change in order to streamline the process for students and to encourage students to stay longer in courses. Doing so will enable them to make a more informed decision before considering a course withdrawal. The cost of this change is essentially revenue neutral in that the 60/40 percentage refund is being amended to 50%:

Immediate implementation of two course discontinuation dates (as noted below),

Fall Semester

1. **The Second Friday following Labor Day in September - a full refund of tuition**
2. **October 31 – a 50% refund of tuition**

Winter Semester

1. **The second Friday in January – a full refund of tuition**
2. **February 28 – a 50% refund of tuition**

After discussions, the following motion was proposed:
MOTION (N. Hood/Z. Jarvis) that the university move to two course discontinuation dates per semester to be implemented as noted above.
CARRIED

c) <u>Project Beacon</u>

The President provided Senators with an update on Project Beacon. A number of milestones have been reached and a number are planned for the near future. He thanked the Comptroller's Office staff, the Registrar's Office staff, and Human Resources staff for all their hard work over the past few months, as well as the patience and support of the University community during this development process. The project continues to be on time and on budget.

d) <u>Vice President Academic and Research Search</u>

President Abd-El-Aziz reminded Senators that the activities of the search committee for a Vice President Academic and Research had been suspended. The committee will be resuming its duties with one change in membership: the new SU President, Nathan Hood (or his designate) will join the committee to

take the place of the former SUPresident, Dana Kenny. President Abd-El-Aziz asked Senate members if they would like to meet with the Search Committee or submit suggestions to them in writing. Senate members indicated that they would like to participate in both options. The President indicated that a special session of Senate would be called to bring both groups together for a discussion very soon.

6. Senate Reports

a) Steering and Nominating Committee Report

The following faculty have been voted or acclaimed to sit on the noted committees:

i) Senate Academic and Student Discipline Appeals Committee

Three faculty (Collins Kamunde, AVC; Tarek Mady, School of Business; and Christina Murray, School of Nursing) were nominated for two vacant positions. The election process resulted in the following faculty being appointed to serve on this committee:

Christina Murray, School of Nursing, elected for a three-year term, ending on June 30, 2019
Tarek Mady, School of Business, elected for a three-year term, ending on June 30, 2019

ii) **Senate Committee on Scholarships and Awards**

Susan Graham, School of Business, acclaimed for a two-year term, ending on June 30, 2018

iii) **Senate Library Committee**

Susan Brown, History Department, acclaimed as the Faculty of Arts representative for a two-year term, ending on June 30, 2018
Michael Cockram, Health Management, acclaimed as the AVC representative for a two-year term, ending on June 30, 2018
Simon Lloyd, acclaimed as the Library representative for a two-year term, ending on June 30, 2018

iv) **Professor Emeritus Committee**

Sean Wiebe, Faculty of Education, acclaimed for a three-year term, to June 30, 2019.

v) **Senate Research Advisory Committee**

Lindsay Moffat, Faculty of Education, acclaimed for a three-year term, to June 30, 2019

For Information:

i) Academic Planning and Curriculum Committee

Student Representative
John Rix

Graduate Student Representative
Linda Walker

ii) Board-Senate Liaison Committee

Student Representative
John Rix

iii) Honorary Degree Committee

Shafiqul Islam, Faculty of Science, has been elected as sabbatical replacement for Dany MacDonald from July 1/16 to June 30/17

Student Representatives
John Rix
Kaylee Jabbour

iv) **Professor Emeritus**
Gloria McInnis-Perry, School of Nursing, has been elected as the Nursing representative from July 1/16 to June 30/19.

v) **Senate Academic and Student Discipline Appeals Committee**
Student Representatives
Zak Jarvis & Babafella Awosile (2 student senators)
Alyssa MacKinnon (student living in residence)

vi) **Senate Committee on Admissions and Degrees**
Debbie MacLellan, Dean, Faculty of Science (appointed by VPAR, 2-year term to June 30, 2018)
Neb Kujundzic, Dean, Faculty of Arts (appointed by VPAR, 2-year term to June 30, 2018)

Staff Position:
Treena Smith, appointed for a two-year term to June 30, 2018)

Student representative
John Rix

vii) **Senate Committee on Enhancement of Teaching**
Stephanie Hamilton, Faculty of Veterinary Medicine, elected to replace Javier Sanchez for sabbatical leave, July 1, to December 31, 2016
Amy Hsaio, School of Engineering, elected as Science representative to June 30, 2017

Student representatives
Nathan Hood
John Rix

Graduate Student Representative
Christian Agatemore

viii) **Senate Committee on Scholarships and Awards**
Pedro Quijon, Biology Department, elected as Faculty of Science representative for 2- year term, May 1, 2016 to June 30, 2018
Kathleen MacMillan, Health Management elected as Veterinary Medicine representative for 2-year term, May 1, 2016 to June 30, 2018

Student representative

Kaylee Jabbour

ix) **Senate Library Committee**
Student representative
Stephen Wilfeard

x) **Senate Research Advisory Committee**
Pedro Quijon, Faculty of Science, has been elected to replace Sami Khedhiri for his sabbatical leave from July 1, 2016 to June 30, 2017
Don Desserud, Faculty of Arts, has been elected to replace Carlo Lavoie for his sabbatical leave from July 1, 2016 to June 30, 2017

Student representative
Owen Shaw

Graduate Student representative
Brittany Jakubiec

xi) **Senate Steering and Nominating Committee**
Student representative
Nathan Hood

xii) **University Review Committee**
Janet Bryanton, School of Nursing, elected as Nursing representative for three year term, May 1, 2016 to April 30, 2019

Philip Smith, Faculty of Arts, elected as Arts representative for three year term, May 1, 2016 to April 30, 2019

Carolyn Peach Brown elected to replace Qiang Ye for a one year term, May 1, 2016 to April 30, 2017

b) Senate Academic Planning and Curriculum Committee Report
The following four motions were proposed:

i) **Motion (L. Edwards/R. MacDonald) that the Senate of the University of Prince Edward Island approves the establishment of a School of Graduate Studies. CARRIED**

President Abd-El-Aziz indicated that he received an e-mail from the Graduate Student Association earlier today requesting the opportunity to address Senate as to why they feel the School of Graduate Studies is beneficial to UPEI and its graduate students. He then invited Logan MacIntyre and Kate Rundle to provide their comments. As well, Dr. Robert Gilmour provided Senators with a power point presentation as to the benefits of having a School of Graduate Studies at UPEI. Questions surrounded process, timelines, expected start-up date, the position of an interim Dean as a transitional solution to an open search, reporting lines and resources. Senators were in strong agreement with the motion, reinforcing that graduate studies be a priority, that the School be properly funded and that government be encouraged to invest.

ii) Motion (R. Gilmour/D. MacLellan) that UPEI suspends admission of students, effective immediately, into the Bachelor of Child and Family Studies degree program. CARRIED
A. Braithwaite and S. Myers abstained.

iii) Motion (R. Gilmour/C. Ryan) that UPEI suspends admission of students, effective immediately, into the Bachelor of Science (Family Science) degree program. CARRIED
A. Braithwaite and S. Myers abstained.

iv) Motion (R. Gilmour/D. MacLellan) that UPEI suspends admission of students, effective immediately, into the Family Science Minor. CARRIED
A. Braithwaite and S. Myers abstained.

The Dean of Science stated these decisions to suspend intake, and not discontinue programs, were made following a program retreat in May 2016. The Department will evaluate where and how programming will develop in the future. Essentially, as demand for these three programs waned as new programming became available in the Department of Applied Human Sciences, or where new initiatives where created, but they were unable to secure the necessary funding to introduce them or to continue them, these decisions became essential. Arrangements have been made for students currently enrolled in the programs to ensure their ability to graduate in a timely manner. No faculty appointments have been affected.

As it was almost 5:00 pm, a motion to extend the Senate meeting to 5:15 pm to complete the agenda was proposed:

MOTION (Z. Jarvis/O. Shaw) to extend the Senate meeting an additional 15 minutes – to 5:15 pm. CARRIED

c) <u>First Curriculum Report</u>

ACADEMIC REGULATIONS

1. Motion R. Gilmour/G. Jiwani) that a new Academic Regulation for double-counting courses be approved as proposed.

<u>Regulation 1 – Requirements for a Degree</u>

j. Double-counting is the practice of having one course satisfy the requirements of two different and concurrent designations within one degree. The following limitations apply: In the case of a major and a minor, a maximum of six semester hours of credit can be double-counted. In the case of a double major, a maximum of nine semester hours of credit can be double-counted. Note: Although a course may be used to meet more than one requirement within a degree, credit is only counted once. **CARRIED**

2. MOTION: To approve, under Academic Regulation 10, Grading, a new category to provide early feedback to students prior to the last date to withdraw from a course without academic penalty.

Senators requested more information on the definition of "feedback" and asked for a broader discussion on the impact this might have on courses which vary in assessment type. Concern was also raised in relation to both the vagueness of 'early feedback' and the potential to quantify feedback which could

negatively inform the need for exceptions. The motion was tabled, and directed back to the APCC for further discussion. If Senators have specific feedback on this topic, they are asked to write to the VPAR directly. **TABLED**

FACULTY OF ARTS

Psychology

Omnibus Motion (R. Gilmour/J. Doiron) that motions 3-4 be approved as below:

3. MOTION: That the change to the course, Psychology 278, Statistics and Research Design I, for a change in the course description be approved as proposed.

Revised

278 STATISTICS AND RESEARCH DESIGN I

~~The first in a two-part series, this course considers paradigms of knowledge and research, introducing students to skills in interpreting and applying descriptive statistics and in basic quantitative and qualitative research design. Students learn how to find and evaluate reports of psychological research. Statistical concepts and applications addressed include frequency tables, graphs, measures of central tendency and variability, z scores, correlation, and probability. Students explore research methods of interviews, observation, and questionnaires. Ethical issues in research are introduced. Laboratory and field projects introduce students to SPSS and to research methodologies.~~

This course introduces qualitative and quantitative paradigms, which frame distinctive ways of knowing the world, and create divergent approaches to research. Qualitative methods emphasize how psychological concepts have various meanings across cultures and time and include observations and interviews as well as analytical techniques to create meaning from the research. Quantitative methods emphasize how various statistical and experimental orientations to the world form a distinctive perspective for research and assumptions about reality. Key concepts include operational definitions, descriptive statistics, normal distribution, z scores, probability, graphing, and the creation of tables. The course includes communication of research findings using APA format, and consideration of research ethics within both paradigms.

4. MOTION: That the change to Psychology 279, Statistics and Research Design II, for a change in the course description be approved as proposed.

Revised

279 STATISTICS AND RESEARCH DESIGN II

~~Building on Psychology 278, this course further explores paradigms of knowledge and research, introducing students to skills in interpreting and applying inferential statistics and in research design. Students learn about framing research questions and developing hypotheses. Statistical concepts and applications include significance, confidence intervals, regression, t tests, analysis of variance, and chi square. Students consider research methods in quasi-experimental and experimental design. Approaches to collecting and analyzing data from qualitative designs are investigated. Students develop skills in written and oral presentation of research, and ethical issues are further explored. Laboratory and field projects further apply SPSS and various research methodologies~~.

Building on the foundation created in Psychology 278, this course examines quantitative research methods for observation based on measurements, emphasizing efforts to control observation conditions. Research design paradigms include within-participant experiments, between-participant experiments, and quasi-experiments, which can be analyzed in terms of probability theory to enable using inferential

statistics. The steps to statistical hypothesis testing will teach approaches and assumptions for chi-square, correlation, t-tests, and one-way ANOVA. Reflections on the limitations inherent in the methodologies research findings using APA format, and consideration of research ethics. **CARRIED**

SCHOOL OF NURSING

Omnibus motion (R. Gilmour/C. Murray) that motions 5-23 be approved as below:

5. MOTION: To have the changes to the course description, prerequisite and lecture hours for NURS 601 - ADVANCED HUMAN PHYSIOLOGY & PATHOPHYSIOLOGY be approved as proposed:

Revised

NURS 601 ADVANCED HUMAN PHYSIOLOGY & PATHOPHYSIOLOGY

This course discusses the function of human organ systems, emphasizing disease states. ~~Laboratories~~ Seminars and independent study will focus on how to diagnose diseases, minimize disease risk and formulate therapeutic management plans. A combination of formal lectures, seminars ~~group discussions~~, directed readings and case studies is used.

Cross listed with Biology 401

Prerequisite: ~~Entry to~~ Enrolment in the Master of Nursing, Nurse Practitioner (NP) stream

~~Three hours lecture, three hour lab a week~~

LECTURE: 3 hours

SEMINAR**:** 2-3 hours

HOURS OF CREDIT: 3

6. MOTION: To have the changes to the course description, prerequisites and lecture/seminar hours for NURS 616 - PHARMACOTHERAPEUTICS FOR ADVANCED PRACTICE be approved as proposed:

Revised

NURS 616 - PHARMACOTHERAPEUTICS FOR ADVANCED PRACTICE

This course provides students with an opportunity to acquire the advanced knowledge required to critically appraise/interpret concepts integral to pharmacotherapy and advanced counseling in the treatment of common conditions seen across the lifespan in primary health care settings. Building upon basic pharmacologic principles and the pharmacologic actions of the major drug classes, learning will focus on the preparation of students to develop, initiate, manage, and evaluate patient-centred therapeutic plans of care. In addition, students will analyze different pharmacotherapeutic principles and approaches in relation to physiologic systems, with an emphasis on the competent application of these pharmaceutical agents. Legal aspects related to prescriptive authority will be fully addressed. A combination of formal lectures, seminars, directed readings and case studies will be used.

PREREQUISITE: Enrolment in ~~first year of~~ the MN program, Nurse ~~Practictioner~~ Practitioner stream

LECTURE~~/SEMINAR~~: 3 hours

SEMINAR**:** 2-3 hours

HOURS OF CREDIT: 3

7. MOTION: That the clarification in CLINICAL EXPERIENCE in the course NURS 622 - ADVANCED NURSING PRACTICE be approved as proposed from 6 hours to 72 hours across the course.

Revised

NURS 622 – ADVANCED NURSING PRACTICE

CLINICAL EXPERIENCE: ~~6~~ 72 hours

8. MOTION: That the change in CLINICAL EXPERIENCE hours in the course NURS 631 - HEALTH PROMOTION AND DISEASE PREVENTION ACROSS THE LIFE SPAN be approved as proposed from 130 hours across the semester to 100 hours across the course.

Revised
NURS 631 - HEALTH PROMOTION AND DISEASE PREVENTION ACROSS THE LIFE SPAN
CLINICAL EXPERIENCE: ~~130~~ 100 hours ~~across the~~ ~~semester~~

9. MOTION: That the change in CLINICAL EXPERIENCE hours and ADDITION OF PREREQUISITES in the course NURS 632 - EPISODIC HEALTH CARE ACROSS THE LIFE SPAN be approved as proposed:

Revised

NURS 632 - EPISODIC HEALTH CARE ACROSS THE LIFE SPAN
PREREQUISITES: NURS 601 & NURS 616
LECTURE/SEMINAR: 3 hours
CLINICAL EXPERIENCE: ~~135~~ 200 hours ~~across the~~ ~~semester~~

10. MOTION: That the change in CLINICAL EXPERIENCE hours and ADDITION OF PREREQUITES in the course NURS 634 - CHRONIC DISEASE MANAGEMENT be approved as proposed:

Revised
NURS 634 - CHRONIC DISEASE MANAGEMENT
PREREQUISITES: NURS 601& NURS 616
LECTURE/SEMINAR: 3 hours
CLINICAL EXPERIENCE: ~~135~~ 200 hours ~~across the~~ ~~semester~~

11. MOTION: That the change in CLINICAL EXPERIENCE hours and ADDITION OF PREREQUISITES in the course NURS 635 - NURSE PRACTITIONER PRACTICUM be changed, as well as adding a SEMINAR, to be approved as proposed:

Revised
NURS 635 - NURSE PRACTITIONER PRACTICUM
Prerequisites: NURS 601& NURS 616
CLINICAL EXPERIENCE: ~~250~~ 200 hours ~~across the~~ ~~semester~~
SEMINAR: 3 hours

12. MOTION: That the Introduction to the Thesis Stream be deleted.

~~**Reproduction**~~

~~**Thesis**~~

~~Each candidate in the thesis-based option is required to submit a thesis based upon research conducted under supervision as described in this section of the calendar. The thesis must demonstrate the student's capacity for original and independent research and should extend the knowledge base in the field under study.~~

General specifications as to paper, format, order, and binding are available from the Office of the Coordinator of Graduate Studies.

The student should consult frequently with the Supervisor and the Supervisory Committee when preparing the thesis. After the final draft has been read and approved by the members of the Supervisory Committee, four copies must be submitted to the Coordinator of Graduate Studies for dissemination to members of the Examining Committee. These copies must be submitted no later than four weeks prior to the student's oral defence.

The Master's Examination

The final oral examination, which is devoted chiefly to the defence of the thesis, is a Faculty examination, identified as the Master's Examination. Normally, the Examining Committee consists of the two members of the Supervisory Committee, one other member of the School of Nursing, and one reader, external to the university, who submits a written report attesting to the quality of the work. The Coordinator of Graduate Studies selects the Examining Committee at the request of the Supervisor, appoints the Chair, and is responsible for notifying the Dean of Nursing of its composition.

Normally, the final oral examination is open to the public; however, members of the public may question the student only upon the invitation of the Chair of the Examining Committee.

The examination is passed and the thesis approved if there is no more than one negative vote; an abstention is considered to be a negative vote. The Coordinator of Graduate Studies is responsible for reporting the result of the examination to the Dean of Nursing. The result is recorded as "Accepted as is," "Accepted after minor revision," "Accepted after substantial revision," or "Unacceptable." The result "Accepted after minor revision" normally entails editorial changes. If the result is "Accepted after substantial revision", the student may be given the opportunity by the Examining Committee to revise the thesis with or without defending again. If the thesis revision is successful, the thesis supervisor is to sign before the thesis is presented to the Graduate Studies Committee. Six copies, including one unbound copy, should be presented to the Graduate Studies Coordinator. If the result is "Unacceptable", the student may be given one opportunity by the Examining Committee to revise the thesis and to defend it again.

Submission of Thesis

When the thesis, in its final form, has been prepared after the final oral examination, the student will bring six unbound copies to the Coordinator of Graduate Studies at least three weeks prior to Convocation.

Each copy must be submitted in a separate folder with the pages numbered and arranged in the appropriate order. The thesis must be free from typographical and other errors. All copies must include the Certificate of Approval signed by the Examination Committee and the members of the Supervisory Committee. Also included must be a brief Abstract and a copy of the circulation waiver and the copying licence.

When accepted by the Coordinator of Graduate Studies, one copy will be retained for microfilming and for deposit in the University Library after being bound. A second copy will be released to the Faculty of Education. A third copy will be released to the student's supervisor and three copies will be released to

~~the student.~~

~~**Publication**~~

~~The University requires publication of the thesis in the following manner:~~

~~One unbound copy of the thesis is forwarded to Library and Archives Canada, together with an agreement form signed by the candidate authorizing Library and Archives Canada to microfilm the thesis and to make microfilm copies available for sale on request. Library and Archives Canada will film the thesis exactly as it is and will list the thesis in Canadiana as a publication of Library and Archives Canada. A fee is charged by Library and Archives Canada to offset the cost of microfilming.~~

~~The Library and Archives Canada Microfilm Agreement form will be sent to the candidate prior to the Master's Examination, to be signed and submitted to the Coordinator of Graduate Studies immediately after the successful completion of the examination.~~

~~The student, in consultation with the Supervisor and the Coordinator of Graduate Studies, shall have the right to request that circulation and/or copying of the thesis in any form be withheld for up to one year.~~

~~**Circulation and Copying of Thesis**~~

~~In normal circumstances, as a condition of engaging in graduate study in the University, the author of a thesis grants certain licences and waivers in respect of the circulation and of Thesis copying of the thesis:~~

~~1. to the University Librarian, a waiver permitting the circulation of the thesis as part of the Library collection;~~
~~2. to the University, a licence to make single copies of the thesis under carefully specified conditions;~~
~~3. to Library and Archives Canada, a licence to microfilm the thesis under carefully specified conditions.~~

~~**Copyright Provision**~~

~~Copies of the thesis shall have on the title page the words "In partial fulfillment of requirements for the degree of Master of Education." The international copyright notice, which consists of three elements in the same line–the letter "C" enclosed in a circle; the name of the copyright owner (the student); and the year–should appear as a bottom line on the title page of the thesis.~~

13. MOTION: To have the following course changes and sequencing in the Accelerated Bachelor of Science in Nursing (BScN) Program be approved as proposed.

Revised

January – April

- NURS 103 - Fundamentals of Nursing Practice
- NURS 245 - Health Assessment
- NURS 232 - Introductory Pharmacology
- VBS 212 - Pathophysiology for Nursing Students

Mid-April – August

- NURS 213 - Nursing of Young Families
- NURS 223 - Adult Nursing: Transitions in Health

Students in the accelerated BScN Program merge with the year three BScN student cohort in N323 and remain with this group until NURS 402X.

September - December
- NURS 323 - Partnerships with Clients and Families Living with Chronic Illness
- NURS 303 - Issues in Nursing and Health Care ~~OR~~
- NURS 304 - Nursing Research Methods
- ~~NURS 305 - Health Teaching~~

Second Year Required:
January – April

- NURS 313 - Developing Partnerships with Clients in the Community
- NURS 403 - Leadership for Health Professionals in a Primary Health Care Context
- ~~NURS 303 - Issues in Nursing and Health Care OR~~
- ~~NURS 304 - Nursing Research Methods~~
- NURS 305 – Health Teaching
- NURS 306 - Nursing of the Childbearing Family

May - June
- NURS 310 - Integrated Clinical Experience I

July - August
- NURS 402 - ~~Advanced Nursing Focus~~ Integrated Clinical Experience II

* Upon completion of NURS 402, students in the accelerated Program merge with year four students in NURS 401 and remain with this group until completion of their program in December.

September - December
- NURS 401 - Nursing and Population Health
- NURS 404 - Conceptual Models and Nursing Theories

14. MOTION: To have the following changes in the Accelerated Bachelor of Science in Nursing (BScN) program admission process be approved as proposed.

Revised
Accelerated Bachelor of Science in Nursing – Admission requirements

Enrolment is limited to ~~14~~ 16 students per year. Application for admission is February 15. Applicants receive conditional acceptance into the Accelerated Program based on completion of the required prerequisites.

15. MOTION: To have the following changes to the Bachelor of Science in Nursing (BScN) program application and admission process be approved as proposed.

Revised
Bachelor of Science in Nursing - Admission requirements

Selection criteria
The total number of students admitted will be limited in accordance with facilities and resources on campus and in health care agencies.

Approximately sixty ~~five~~four (~~65~~ 64) seats are available in the four year Nursing Program each year. All students who meet the minimum requirements will be considered. All eligible first year candidates are ranked on their average in Biology, Chemistry, English and Math. University Applicants completing one or more of the core courses listed above will have 10% added to each university course for ranking purposes. University applicants must ~~have a "satisfactory semester"~~ be in good academic standing, as defined in the UPEI calendar ~~in the semester directly preceding admission to Nursing. For intake to Fall 2016 only, applicants will also be scored on experience related to Nursing.~~

Applicants whose average in Biology, Chemistry, English and Math is ~~88%~~ 89% and above when final results for first semester grades are obtained, will receive an "Early Offer" of admission. This "Early Offer" process is subject to change dependent on program capacity. All other applicants will be ranked. The majority of offers will be made by April. Further offers are made in May and July. Applicants deemed as alternates and enrolled in courses are to have all prerequisite courses completed by June 30. Final official transcripts must be received at the Registrar's Office no later than July 15th.

HOLLAND COLLEGE ARTICULATED AGREEMENT

Graduates of the Holland College LPN program since 2009 have two options for applying to the BScN program at UPEI.

Option 1 – Admission to 2nd Year of BScN

Admission Criteria

- received at least a 80% average in the LPN program;
- have evidence of a strong clinical performance during the LPN program. A letter from a clinical nursing instructor from Holland College documenting clinical performance in the LPN program. The letter is to be sent directly to the Registrar's Office at UPEI;
- have completed academic grade 12 English, Math, Chemistry and Biology (Final high school transcript and upgrades if applicable);
- complete a pre-admission math competency test and receive at least 85%;
- have successfully completed the following UPEI courses (or equivalents): Human Anatomy (Bio 121), Human Physiology (Bio 122), Microbiology (~~VPM 101~~BIO 106), Introductory Psychology (Psy 101 & 102).

- Potential applicants who have met the admission criteria, with the exception of the five degree level university courses, may complete these courses at UPEI. Special permission from the Chair of

Biology is required to enrol in Microbiology (~~VPM 101~~ BIO 106). Permission is subject to availability of space in the course.

Option 2 – Admission to 1st Year of BScN

The second option is to apply directly to the first year of the 4 year Nursing program. In this case the admission requirements are exactly the same as other applicants applying to the first year of the program. If accepted, students start in the 1st year of Nursing, receive the same transfer credit as under the articulated agreement, but complete the 1st year courses (Psy 101, Psy 102, Bio 121, Bio 122, and ~~VPM 101~~ BIO 106) that have not yet been taken.

16. MOTION: To have the following course changes and sequencing in the Bachelor of Science in Nursing (BScN) Program be approved as proposed.

Revised

Year 1

- BIO 106 (formerly VPM 101) - Introductory Microbiology for ~~Nursing Students~~ Health Sciences
- BIO 121 – Human Anatomy and Physiology I
- BIO 122 – Human Anatomy and Physiology II
- NURS 101 – Foundations of Nursing I
- NURS 102 – Foundations of Nursing II
- FN 102 – Nutrition for Nursing Practice
- PSY 101 – Introduction to Psychology I
- PSY 102 – Introduction to Psychology II
- Electives (see notes)

Year 2

- Either PSY 201 – Developmental Psychology OR
- FS 241 – Human Development
- VBS 212 – Pathophysiology for Nursing Students
- NURS 203 – Health Assessment
- NURS 213 – Nursing of Young Families
- NURS 223 – ~~Nursing of Individuals and Families in Wellness and Illness~~ Adult Nursing: Transitions in Health
- NURS 232 – Introductory Pharmacology
- Electives (see notes)

Year 3

- NURS 303 – Issues in Nursing and Health Care
- NURS 304 – Nursing Research Methods
- NURS 305 – Health Teaching
- NURS 306 – Nursing of the Childbearing Family
- NURS 313 – Developing Partnerships with Clients in the Community
- NURS 323 – Partnerships with Clients and Families Living with Chronic Illness
- Electives (see notes)

Spring Session

- NURS 310 - Integrated Clinical Experience I

Year 4

- NURS 401 - Nursing and Population Health
- NURS 402 - ~~Advanced Nursing Focus~~ Integrated Clinical Experience II
- NURS 403 - Nursing Leadership and Primary Health Care
- NURS 404 - Conceptual Models and Nursing Theories
- 1 Elective (see note)

17. MOTION: To have the following changes in Degree Requirements be approved as proposed.

Revised
Bachelor of Science in Nursing – Degree Requirements

The following regulations govern students' progression through the program:

PROFESSIONAL CONDUCT
1. a) Nursing students are expected to be safe, ethical practitioners in all nursing practice situations. Student performance must be in accordance with the legal, ethical, moral and professional standards identified in the profession's Code of Ethics (CNA, ~~2002~~2008), the Standards for Nursing Practice (~~ANPEI, 1999~~ARNPEI 2011), and the UPEI School of Nursing clinical course objectives. Nursing students are also expected to behave in a professionally appropriate manner, regardless of the setting.

18. MOTION: To have the change in prerequisite for NURS 213 - NURSING OF YOUNG FAMILIES be approved as proposed.

Reproduction
213 - NURSING OF YOUNG FAMILIES
PREREQUISITES: (Four Year Program - Nursing 102, Biology 121, Biology 122, ~~VPM 101~~ BIO 106 and Psychology 201 can be taken concurrently); (Accelerated Program - Admission to Accelerated Program, Nursing ~~101 and 102~~ 103)

19. MOTION: To have the following changes to the course title and hours per week for NURS 245 - HEALTH ASSESSMENT be approved as proposed.

Revised
NURS 245X~~W~~ HEALTH ASSESSMENT ~~(Web-based course)~~
Hours per week: ~~Web-based learning~~ Lecture: ~~2~~ 3Lab: 3

20. MOTION: To have the following changes to the hours per week for NURS 304 - NURSING RESEARCH METHODS be approved as proposed.
Revised
304 - NURSING RESEARCH METHODS
Hours per week: Lecture: 3 ~~Lab/Seminar:~~

21. MOTION: To have the following changes to the prerequisites, hours of credit and hours per week for NURS 306 - NURSING OF THE CHILDBEARING FAMILY be approved as proposed.

Revised
306 - NURSING OF THE CHILDBEARING FAMILY

PREREQUISITE: ~~Four Year~~ Bachelor of Science in Nursing Program - Nursing 323; Accelerated Bachelor of Science in Nursing Program—Nursing ~~223~~ 323 and admission to the Accelerated Bachelor of Science in Nursing Program

Semester hours of credit: 3 Lecture: 3;

Hours per week: ~~Four Year Program -~~ 1.5 hours tutorial/seminar, Clinical Practice: 184 hours in total between N 313 and 306; ~~Accelerated Program - Lecture: 3 Tutorial: 1.5 hours; Other - Clinical Practice: 184 hours in total~~

22. MOTION: To have the following change in course title from NURS 310 INTEGRATED CLINICAL EXPERIENCE to NURS 310 - INTEGRATED CLINICAL EXPERIENCE I be approved as proposed.

Revised

310 - INTEGRATED CLINICAL EXPERIENCE I

23. MOTION: To have the following change in course title from NURS 402 - ADVANCED NURSING FOCUS to NURS 402 - INTEGRATED CLINICAL EXPERIENCE II be approved as proposed.

Revised

402 - ~~ADVANCED NURSING FOCUS~~ INTEGRATED CLINICAL EXPERIENCE II

CARRIED

FACULTY OF SCIENCE

Bachelor of Wildlife Conservation

Omnibus motion (R. Gilmour/J. Sentance) that motions 24-25 be approved as below:

24. MOTION: That a new course, Biology 491 - Wildlife Conservation & Environmental Management Practicum, be approved as proposed.

Biology 491 - WILDLIFE CONSERVATION & ENVIRONMENTAL MANAGEMENT PRACTICUM

This course provides practical experience and leadership in an area of wildlife conservation or environmental management. Students work in teams with an environmental organization on a specific project or task for 6 weeks, compile research and present their findings in a written report and oral presentation.

PREREQUISITE: Biology 331. Registration in the fourth year of the Bachelor of Wildlife Conservation Program and completion of Biology 331. Biology majors in the Environmental Biology specialization may take this course with permission of the Coordinator of the BWC program or the Chair of Biology.

Three hours lecture or seminar a week

25. MOTION: That the modified program requirements and calendar entry for the Bachelor of Wildlife Conservation degree be approved as proposed.

Revised

~~**Required Biology courses**~~:

9 Core Biology courses

- Biology 131—Introduction to Cell and Molecular Biology
- ~~Biology 206—Microbiology~~

- Biology 222—Ecology
- Biology 331—Research Methods and Communications in Biology
- Biology 382 – Evolutionary Biology
- Biology 391—Marine Biology OR Biology 462— Watershed Ecology
- Biology 413—Conservation Genetics
- Biology 415—Wildlife Health
- Biology 452—Biogeography and Macroecology OR Biology 454—Biodiversity and Conservation Biology
- ~~Biology 462—Watershed Ecology (Ecology)~~
- Biology 491—Wildlife Conservation and Environmental Management Practicum

~~**Other science requirements**~~**:**

7 Core Courses in Other Departments

- ~~Chemistry 111—General Chemistry I~~
- ~~Chemistry 112—General Chemistry II~~
- ~~Chemistry 202—Environmental Chemistry OR Biology 485—Environmental Toxicology~~
- Environmental Studies 101 – Introduction to Environmental Studies
- Environmental Studies 212 – Earth's Physical Environment
- Environmental Studies 431 – Environmental Impact Assessment
- Economics 101 – Introductory Microeconomics
- Economics 211 – Introduction to Resource Economics
- Economics 215 – Environmental Economics
- UPEI 101 or UPEI 102 or UPEI 103

~~**Environmental Studies requirements:**~~

- ~~Environmental Studies 201—Introduction to Environmental Studies~~
- ~~One of Environmental Studies 202—Sustainability and Sustainable Development OR 212—Earth's Physical Environment OR 301—Integrating Environmental Theory and Practice OR 311—Understanding Climate Change~~

Students complete the degree requirements by choosing ~~four~~ two science and two non-science electives (~~**one needs to be UPEI 101, 102 or 103)**~~ ~~from the following lists. At least three of the science electives must be at the third or fourth year level. Specific electives may not be available during certain semesters or years; other electives may be taken if approved by the program coordinator. In some cases, prerequisites may be required for taking courses. Students are responsible for obtaining information concerning the availability of chosen electives.~~

- ~~Humankind and Culture~~
- ~~Anthropology 211 Introduction to Archeology~~
- ~~Anthropology 106—Introduction to Anthropology II~~
- ~~Anthropology 107—Introduction to Physical Anthropology and Archaeology~~
- Canadian ~~Studies 101~~102~~—Imagining Canada~~
- ~~Economics 101—Introductory Microeconomics~~
- ~~Economics 102—Introductory Macroeconomics~~
- ~~Island Studies 201 – Introduction to Island Studies~~
- ~~Philosophy 101—Introduction to Philosophy~~
- ~~Philosophy 102—Introduction to Ethics & Social Philosophy~~
- ~~Philosophy 105—Technology, Values, & Science~~
- ~~Philosophy 111—Critical Thinking~~

- ~~Philosophy 203—Environmental Philosophy~~
- ~~Philosophy 301 – Philosophy of Science~~
- ~~Philsophy 302 – Philosophy of Biology~~
- ~~Political Science 101—Introductory Politics I~~
- ~~Political Science 102—Introductory Politics II~~
- ~~Psychology 101—Introduction to Psychology: Part I~~
- ~~Psychology 102—Introduction to Psychology: Part II~~
- ~~Sociology 101—Introduction to Sociology I~~
- ~~Sociology 102—Introduction to Sociology II~~
- ~~Sociology 105—Civility and Society~~

~~**Science Electives:**~~

- ~~Biology 304—Vertebrate Zoology~~
- ~~Biology 312—History of Biology~~
- ~~Biology324—Comparative Vertebrate Anatomy~~
- ~~Biology 326—Introductory Physiology of Cells and Organisms~~
- ~~Biology 327—Field Coastal Ecology~~
- ~~Biology 335—Animal Behaviour~~
- ~~Biology 351—Ornithology~~
- ~~Biology 361—Biology of Fishes~~
- ~~Biology 366—Plant Animal Interactions~~
- ~~Biology 371—Life of Mammals~~
- ~~Biology 375—Medical Microbiology~~
- ~~Biology 382—Evolutionary Biology~~
- ~~Biology 411—Principles of Wildlife Biology~~
- ~~Biology 452 – Biogeo & Macroecol (if not taken as a required course)~~
- ~~Bio 454 – Biodiversity & Cons Bio (if not taken as a required course)~~
- ~~Biology 485—Environmental Toxicology (if not taken as a required course)~~
- ~~Biology 441—Directed Studies in Biology~~
- ~~Bio 462 -Watershed Ecology (if not taken as a required course)~~
- ~~Chemistry 202—Environmental Chemistry (if not taken as a required course~~Permission from the instructor is required~~)~~
- ~~Environmental Studies 212—Earth's Physical Environment~~
- ~~Environmental Studies 301—Integrating Environmental Theory and Practice~~
- ~~Environmental Studies 311—Understanding Climate Change~~
- ~~Mathematics 222—Introductory Statistics II~~

~~Physics 261—Energy, Environment and the Economy~~

CARRIED

Paramedicine
Omnibus motion (R. Gilmour/O.Shaw) that motions 26-33 be approved as below:

26. MOTION: That the new course Biology 224 - Human Genetics, be approved as proposed.

224 - HUMAN GENETICS

The principles of genetics are considered in a broad perspective. Topics include chromosomes, genes, DNA replication and mutation, Mendelian inheritance, covered at different levels of organization (from genome to organism and population), with special emphasis on humans.
PREREQUISITE: Biology 131
Three hours lecture a week

27. MOTION: That the new course Biology 225 - Human Biochemistry, be approved as proposed.

225 - HUMAN BIOCHEMISTRY
This course is an introduction to the major classes of biomolecules and their main metabolic pathways. Special attention is paid to biochemistry in the context of human metabolism, nutrition and disease.
PREREQUISITE: Biology 131, Chemistry 111
Three hours lecture a week

28. MOTION: That the new course Paramedicine 401 - Health Promotion, Planning and Evaluation, be approved as proposed.

401 - HEALTH PROMOTION, PLANNING AND EVALUATION
This course discusses the concepts of health and illness with an emphasis on understanding the origins, factors and conditions that determine health throughout the lifespan. Students are introduced to the practice of critical evaluation of systems used in health promotion and planning through reading published, literature, writing and class discussions.
PREREQUISITE: Registration in the BSc. Paramedicine program
Three hours lectures a week

29. MOTION: That the new course Paramedicine 402 - Disaster Medicine and Crisis Response, be approved as proposed.

402 - DISASTER MEDICINE AND CRISIS RESPONSE
This advanced course introduces students to the practice of medicine within the disaster environment. Students learn how to plan and mitigate crisis response to both anthropogenic and natural disasters. Using modules, topics cover modelling of disaster predictions, organization of EMS before, during and after a disaster, disaster medicine principles and disaster management within the hospital environment.
PREREQUISITE: Registration in the BSc. Paramedicine program
Three hours lectures a week

30. MOTION: That the new course Paramedicine 403 - Critical Appraisal of Health Care Literature in the Acute Care Environment, be approved as proposed.

403 - CRITICAL APPRAISAL OF HEALTH CARE LITERATURE IN THE ACUTE CARE ENVIRONMENT
This course introduces students to the practice of Evidence Based Medicine. Students will learn the skills to formulate a clinical question, search and critically evaluate the medical literature, and develop an answer to the question. Students will participate in "journal club" style rounds, and be expected to complete a project answering a clinical scenario of their choice.
PREREQUISITE: Registration in the BSc. Paramedicine program. Biology 331 should be taken at least concurrently.
Three hours lectures a week

31. MOTION: That the new course Paramedicine 404 - Current Issues in Paramedicine, be approved as proposed.

404 - CURRENT ISSUES IN PARAMEDICINE
This course gives students an opportunity to explore in depth topics shaping paramedicine today and in the future. The current issues explored include such topics as: pre-hospital airway management, extended scope of practice, advanced life support, trends in trauma management and others. Students learn though evaluation of current medical literature and discussion of topics, some of which will be selected by participants.
PREREQUISITE: Registration in the BSc. Paramedicine program. Biology 331 should be taken at least concurrently.
Three hours lectures a week

32. MOTION: That the new course Paramedicine 490 - Advanced Research and Thesis in Paramedicine, be approved as proposed.

490 - ADVANCED RESEARCH AND THESIS IN PARAMEDICINE
This is a 12 semester-hour course required of all Honours students. It is intended to provide the student with research experience by giving them an opportunity to design, carry out, evaluate and write up a research project in an approved scientific fashion, while working under the direction of an advisor. This course prepares students who intend to take up further studies at a post-graduate level or for a career where research experience would be an asset.
PREREQUISITE: Acceptance to the Honours Program in Paramedicine
Twelve semester hours of credit

33. MOTION: That a new calendar entry for Bachelor of Science in Paramedicine in the Faculty of Science be approved.

Bachelor of Science in Paramedicine

Overview:
The BSc. in Paramedicine combines occupational content provided by the Paramedicine Diploma programs at Holland College (or any two-year CMA-accredited paramedicine program) with foundational science courses, senior specialized courses in the life sciences, and advanced capstone paramedicine courses, at the University of Prince Edward Island. It is designed for paramedics interested in enhancing their science knowledge as well as their research and communication skills, thus increasing access to post-graduate opportunities (e.g., Master's degree programs) and improving job prospects.

Admission criteria:
This is an articulated BSc. degree and requires that students graduate from Holland College with diplomas in Basic Paramedicine (two years; PCP) or Advanced Paramedicine (three years ACP). Students from another CMA-accredited program who have taken a minimum of two years to get their Diploma in Paramedicine will also be eligible to enrol in the BSc. in Paramedicine program at UPEI. All applicants must achieve a minimum grade of 70% in their diploma program to be eligible to apply to the degree program.

Course sequence:

While at UPEI, paramedics in the BSc. program will take 20 courses. Of these, 15 are required (core) courses and the rest will be electives. The core courses will primarily be in Biology, with four advanced courses in Paramedicine:
- 3 first year courses: First Year Experience, Introductory Biology I (Introduction to Cell & Molecular Biology), Introductory Chemistry I (General Chemistry I);
- 5 second year courses: Cell Biology, Microbiology, Human Genetics, Human Biochemistry, Introductory Statistics;
- 2 third year courses: Research Methods & Communications, Medical Microbiology; and
- 5 fourth year courses: Basic & Clinical Immunology; Health Promotion, Planning & Evaluation; Disaster Medicine & Crisis Response; Critical Appraisal of Health Care Literature in the Acute Care Environment; and Current Issues in Paramedicine.

Paramedics will take 5 elective courses to complete this program. Two of these electives must be from Science (Chemistry, Nutrition, Kinesiology or Physics) or Social Science areas (Business, Psychology or Philosophy). Students with an average of 75% in second year may apply to do an Honours thesis and enrol in Para 490, Honours Thesis in Paramedicine.

Course sequence:
Year 1
First semester:

- Biology 131 (Introduction to Cell & Molecular Biology)
- UPEI 101/102/103 (First year experience)
- Biology 221 (Cell Biology)
- Chemistry -111 (General Chemistry I)
- Elective (recommend one of two from the list below)

Second semester:

- Biology 206 (Microbiology)
- Biology 224 (Human Genetics)
- Biology 225 (Human Biochemistry)
- Paramedicine 401 (Health promotion, planning and evaluation)
- Elective (recommend one of two from the list below)

Year 2
First semester:

- Biology 375 (Medical Microbiology)
- Statistics 221 (Introductory Statistics I)
- Paramedicine 402 (Disaster Medicine and Crisis Response)
- Elective or Paramedicine 490 (Honours Research & Thesis)
- Elective

Second semester

- Biology 331 (Research Methods and Communications in Biology)
- Biology 475 (Basic and Clinical Immunology)
- Paramedicine 403 (Critical Appraisal of Health Care Literature in the Acute Care Environment)
- Paramedicine 404 (Current Issues in Paramedicine)
- Elective or Para 490 (Honours Research & Thesis)

Electives:
Students complete the degree requirements by choosing 5 electives. Two electives must be from one of the Sciences or Social Sciences/Humanities listed below. Students are encouraged to take two electives from the same discipline (e.g. Psych 101 and 102) as these are set up to be taught in the first and second semesters, and sometimes summer. It will also make it easier to get into electives in the same discipline the following year. NOTE: Students may also register for Para 490 (Honours Thesis in Paramedicine) in which case they would need two fewer electives in their second year and then they may graduate with an Honours degree.

Electives. Students must take a minimum of two of these courses:

- Business 101, Introduction to Business; Business 171, Organizational Behaviour
- Biology 132, Introduction to Organisms
- Chemistry 112, General Chemistry II; Chemistry 243, Organic Chemistry
- Foods and Nutrition 101, Nutrition for Living; ~~-~~Foods and Nutrition 211 and 212, Introductory Nutrition I and II
- Kinesiology 101, Introduction to Kinesiology
- Philosophy 105, Technology, Values, and Science; Philosophy 111, Critical Thinking
- Physics 121 and 122, Physics for Life Sciences I and II
- Psychology 101 and 102, ~~-~~Introduction to Psychology I and II

CARRIED

Biology
Omnibus motion (R. Gilmour/S. Wilfeard) that motions 34-40 be approved as below:

34. MOTION: That the changes to the prerequisite(s) for Biology 327 - Field Coastal Ecology, be approved as proposed.

Revised
***327 FIELD COASTAL ECOLOGY**
PREREQUISITES: Biology 202, or 204 ~~and~~ or 222. ~~Students registered in Bachelor of Wildlife Conservation Program may take this course after completion of Bio 131 and Bio 222.~~

35. MOTION: That the changes to the prerequisites for Biology 335 - Animal Behaviour, be approved as proposed.

Revised
335 ANIMAL BEHAVIOUR
PREREQUISITES: Biology 204 or 222. ~~Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 131 and Biology 222.~~

36. MOTION: That the changes to the prerequisite(s) for Biology 351 - Ornithology, be approved as proposed.

***351 ORNITHOLOGY**
PREREQUISITE: ~~A combined average of at least 60% in Biology 131-132.~~ Biology 204. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 131 and Biology 222.

37. MOTION: That the changes to the prerequisite(s) for Biology 361 - Biology of Fishes, be approved as proposed

***361 BIOLOGY OF FISHES**
PREREQUISITE: ~~A combined average of at least 60% in Biology 131-132~~. Biology 204. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 131 and Biology 222.

38. MOTION: That the changes to the prerequisite(s) for Biology 366 - Plant-Animal Interactions, be approved as proposed.

***366 PLANT-ANIMAL INTERACTIONS**
PREREQUISITES: Biology ~~202, 204, and~~ 222. ~~Students registered in Bachelor of Wildlife Conservation Program may take this course after completion of Bio 131 and Bio 222.~~

39. MOTION: That the changes to the prerequisite(s) for Biology 391 - Marine Biology, be approved as proposed.

***391 MARINE BIOLOGY**
PREREQUISITES: Biology ~~202 and~~ 204 or 222. ~~Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 131 and Biology 222.~~

40. MOTION: That the prerequisites and lecture hours for Biology 411 - Principles of Wildlife Biology, be modified as proposed.

Revised
411 PRINCIPLES OF WILDLIFE BIOLOGY
PREREQUISITE: Biology 202, ~~and~~ 204, and 222. Students registered in the Bachelor of Wildlife Conservation Program may take this course after completion of Biology 131 and Biology 222.
~~Two~~ Three hours lecture, ~~four~~

CARRIED

Chemistry
Omnibus motion (R. Gilmour/T. Mady) that motions 41-42 be approved as below:

41. MOTION: To make changes to the prerequisites for Chemistry 331 – Physical Chemistry II, as a result of changes in the Mathematics Calculus Stream.

Revised
331 - PHYSICAL CHEMISTRY II
PREREQUISITE: Chemistry 231 with a minimum of 60% and ~~Mathematics 251~~ Mathematics 291~~, or permission of the Chair~~

42. MOTION: To make changes to the Requirements for a Major in Chemistry and Honours in Chemistry as a result of changes in the Mathematics Calculus Stream and changes to Physics 272.

Revised

REQUIREMENTS FOR A MAJOR IN CHEMISTRY

Students pursuing a Bachelor of Science degree with a major in Chemistry must take at least 48 semester hours of chemistry in total and must at the same time complete certain courses as specified by the major requirements.

The required Chemistry courses are: Chemistry 111-112, Chemistry 221, Chemistry 241-242, Chemistry 231, Chemistry 272, Chemistry 322, Chemistry 331, Chemistry 342, Chemistry 353, Chemistry 361, Chemistry 374, Chemistry 482 OR 483 and two Chemistry electives, at least one of which is at the 4th year level.

Additional course requirements for the Chemistry major include the following courses from other disciplines: Biology 131-132, ~~Mathematics 151~~ Mathematics 191, ~~Mathematics 152~~ Mathematics 192, ~~Mathematics 251~~ Mathematics 291 and a Math elective, Physics 111-112 or Physics 121-122. As well, students majoring in Chemistry are advised to take Physics ~~272 (Electronics and Instrumentation)~~ 212 (Electricity, Magnetism, and Circuits).

All programs of study of students declared as Chemistry majors must be approved by the Chair of the Department. An outline of the Chemistry major requirements in the suggested sequence for their completion is given below, but deviations from it are permitted provided that the pertinent prerequisites are fulfilled.

First Year

- Chemistry 111-112 General Chemistry I and II
- Biology 131-132 General Biology I and II
- Physics 111-112 or 121-122 General Physics
- ~~Mathematics 151-152 Introductory Calculus I and II~~ Mathematics 191 – 192 Single Variable Calculus I and II
- Electives (6 semester hours)

Second Year

- Chemistry 221 Analytical Chemistry
- Chemistry 241-242 Organic Chemistry I & II
- Chemistry 231 Physical Chemistry I
- Chemistry 272 Inorganic Chemistry I
- ~~Mathematics 251 Intermediate Calculus I~~ Mathematics 291 Multivariable and Vector Calculus
- Electives (~~12~~ 9 semester hours)

Third Year

- Chemistry 322 Analytical Instrumentation
- Chemistry 331 Physical Chemistry II
- Chemistry 342 Advanced Organic Chemistry
- Chemistry 361 Organic Spectroscopy
- Chemistry 374 Inorganic Chemistry II
- Mathematics elective (3 semester hours)
- Electives (12 semester hours)

Fourth Year

- Chemistry 353 Biochemistry
- Chemistry 482 Advanced Research Project* OR 483 ~~Advanced Research Project*~~ ~~OR~~ Advanced Chemistry Laboratory*
- Chemistry Electives (6 semester hours)
- Electives~~*~~ (15 or 18 semester hours)*

*The total number of electives depends on whether Chemistry 482 (6 credits) or Chemistry 483 (3 credits) is taken to fulfill the fourth year laboratory requirement. The Chemistry electives may be chosen from the Chemistry courses numbered: 202, 282, 432, 441, 461, 462, 464, 467, 468, 469, 482 or 483. At least one of the electives must be a 4th year course. The mathematics elective may be selected from Statistics 221, Mathematics ~~221,~~ 242, ~~252~~ 291, or 261.

REQUIREMENTS FOR HONOURS IN CHEMISTRY

First Year

- Chemistry 111-112 General Chemistry I and II
- Biology 131-132 General Biology I and II
- Physics 111-112 or 121-122 General Physics
- ~~Mathematics 151-152 Introductory Calculus I and II~~ Mathematics 191 – 192 Single Variable Calculus I and II
- Electives (6 semester hours)

Second Year

- Chemistry 221 Analytical Chemistry
- Chemistry 241-242 Organic Chemistry I & II
- Chemistry 231 Physical Chemistry I
- Chemistry 272 Inorganic Chemistry I
- ~~Mathematics 251 Intermediate Calculus I~~
- ~~Mathematics 252 Intermediate Calculus II~~ Mathematics 291 Multivariable and Vector Calculus
- Electives (9 semester hours)

Third Year

- Chemistry 322 Analytical Instrumentation
- Chemistry 331 Physical Chemistry II
- Chemistry 342 Advanced Organic Chemistry
- Chemistry 353 Biochemistry
- Chemistry 361 Organic ~~Spectrosopy~~ Spectroscopy
- Chemistry 374 Inorganic Chemistry II
- Chemistry elective (3 semester hours)
- Mathematics elective (3 semester hours)
- Electives (6 semester hours)

Fourth Year

- Chemistry 432 Methods in Computational Chemistry
- Chemistry 441 Physical Organic Chemistry
- Chemistry 467 Inorganic Reaction Mechanisms and Catalysis
  OR
  Chemistry 468 Advanced Inorganic Chemistry
- Chemistry 490 Honours Thesis (12 semester hours)
- Chemistry electives (6 semester hours)
- Electives (9 semester hours)

The Chemistry electives may be chosen from among Chemistry courses numbered: 202, 282, 461, 462, 464, 467, 468, or 469. The Mathematics elective may be chosen from Statistics 221, 321, Mathematics ~~221,~~ 261 or 301 ~~or 321~~ in consultation with the Chair. As well, students in the Honours Program in Chemistry are strongly advised to take Physics ~~272 (Electronics and Instrumentation)~~ 212 (Electricity, Magnetism, and Circuits) and/or Physics 312 (Electromagnetism I).

CARRIED

Environmental Studies
Omnibus motion (R. Gilmour/J. Sentance) that motions 43-44 be approved as below:

43. MOTION: Addition of BIO 411 - Principles of Wildlife Biology to the list of approved Science courses for the Bachelor of Environmental Studies.

Revised
APPROVED LIST OF SCIENCE, BUSINESS, AND ARTS COURSES for the BES
SCIENCE COURSES:
411 – Principles of Wildlife Biology

44. MOTION: Addition of IST 201 - Introduction to Island Studies to the list of approved Arts courses for the Bachelor of Environmental Studies.

Revised
APPROVED LIST OF SCIENCE, BUSINESS, AND ARTS COURSES for the BES ARTS COURSES:

Island Studies:
IST 201 Introduction to Island Studies

CARRIED

Physics
Omnibus motion (R. Gilmour/A. MacFarlane) that motions 45-49 be approved as below:

45. MOTION: That a new course entitled Physics 343 - Research Project be approved.

343 - RESEARCH PROJECT
This course allows students majoring in Physics to participate in a research project. Students work under the supervision of a faculty member and are required to write a report describing the work, and give an oral presentation on the work.

Cross Listing: N/A
PREREQUISITES/CO-REQUISITE: Completion of all required 200-level courses for the Major in Physics. Entry into the course is contingent upon the student finding a faculty member willing to supervise the research and departmental approval of the research proposal.
Semester Credit Hours: Three (3)

46. MOTION: That the changes to the course number and prerequisites for Physics 431 - Solid State Physics be approved as proposed.

Revised
~~431~~ 361 SOLID STATE PHYSICS
PREREQUISITE: ~~Physics 322~~ Physics 221. Physics 322 and Physics 372 taken at least concurrently or permission of the Department

47. MOTION: That the changes to the course prerequisites for PHYS 322, 372, 382, 412, and 421 be approved.

Revised
322 QUANTUM PHYSICS I
PREREQUISITE: Physics 202, Physics 221 and Mathematics ~~252~~ 291 or permission of the instructor

372 STATISTICAL PHYSICS I
PREREQUISITE: Physics 112, Physics 282 and Mathematics ~~252~~ 291, or permission of the instructor

382 COMPUTATIONAL PHYSICS
PREREQUISITE: Physics 202 or Physics 221, Mathematics ~~252~~ 291, and Computer Science 151 or Engineering 132

412 ELECTROMAGNETISM II
PREREQUISITES: Physics 312 ~~and 381~~

48. MOTION: That the requirements for the Honours in Physics be revised.

Revised
REQUIREMENTS FOR HONOURS IN PHYSICS
The Honours program in Physics is intended to provide research experience at the undergraduate level. It is designed for students who are interested in continuing their studies at the graduate level in Physics or related fields, or who are planning careers where research experience would be an asset.
The Honours program comprises a total of 126 semester hours of course credit, including a research project worth 12 semester hours. A total of at least 60 semester hours of Physics is required (16 courses plus project).

~~**COURSE REQUIREMENTS**~~
The normal University requirements must be met in addition to the Departmental requirements listed below. Biology 131-132 are highly recommended electives.

First Year
- Physics 111-112
- Mathematics 191-192

- Computer Science 151
  (or Engineering ~~132~~ 131)
- Chemistry 111-112
- Electives (Biology 131-132 are highly recommended) (9 semester hours)

Second Year

- Physics 201
- Physics 202
- Physics 212
- Physics 221
- ~~Physics 272~~
- Physics 282
- ~~Mathematics 251-252~~
- Mathematics 261
- Mathematics 291
- Electives (9 semester hours)

Third and Fourth Years

- Physics 301
- Physics 312
- Physics 322
- Physics 372
- ~~Physics 381~~
- Physics 402
- Physics 412
- Physics 421
- Physics 441 or Physics 443
- ~~Physics 451~~
- Physics 490
- Mathematics 301
- Mathematics 331, 471, or 472
- Electives, at least one of which must ~~be a Physics elective chosen from the following: Physics 382, 391, 414, 422, 431, 461, 462, 463, 464, 471, 472~~ be an additional physics course at the 300 level or above (21 semester hours)

ENTRANCE REQUIREMENTS

For admission to the program, students must normally have a minimum average of 70% in all previous courses~~. First-class or high second-class standing~~ and a minimum average of 75% in all previous Physics courses ~~is expected. Permission of the Department is required.~~

Acceptance will be contingent upon the student~~'s~~ finding a project ~~advisor~~ supervisor, ~~approval of the research project topic,~~ 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 490, the student must have been accepted into the Honours program, and the project topic must be approved by the Department.

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.

~~**PROJECT PHYSICS 490 — ADVANCED RESEARCH AND THESIS**~~

~~This is a 12 semester hour course required of all Honours Physics students. An independent research project or study is done under the supervision of a faculty advisor. Before registering for Physics 490, the student must have been accepted into the Honours program, and the project topic must be approved by the Department. The objective of this course is to provide research experience for the student who intends to pursue further studies at the graduate level, or who is planning a career where research experience in Physics or related areas would be an asset.~~

49. MOTION: That the requirements for a Major in Physics be revised.

Revised

REQUIREMENTS FOR A MAJOR IN PHYSICS

Students who intend to major in Physics are advised to consult the Department before registration. ~~Candidates for the BSc with a major in physics must fulfill the general requirements set by the University Senate and the Departmental requirements listed below. It is suggested that students progress through these requirements in the order given below. However, the courses~~ 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.

First Year

- Physics 111-112
- Mathematics 191-192
- Chemistry 111-112
- Computer Science 151
  (or Engineering ~~132~~ 131)
- Electives (Biology 131-132 are highly recommended) (9 semester hours)

Second Year

- Physics 201
- Physics 202
- Physics 221
- Physics 212
- Physics 282
- Mathematics 291
- Mathematics 261
- Electives (9 semester hours)

Third and Fourth Years

- Physics 312
- Physics 322
- Physics 372
- ~~Physics 381~~
- Physics 441 or Physics 443

- Physics—~~At least~~ Four additional physics courses taken at the 300 level or above, but at least one must be above the 300 level. ~~from among Physics 241, 292, 322, 342, 382, 391, 402, 412, 414, 421, 422, 431, 441, 451, 471, 472. At least one of the courses chosen must be at the 400 level~~ (12 semester hours)
  - Electives (Mathematics 301 is highly recommended) (33 semester hours)

~~NOTE: Students who intend to major in Physics are advised to consult the Department before registration. The Departmental requirements and the prerequisites indicated in the Physics courses should normally be followed. In exceptional cases these may be discussed with the Department~~

CARRIED

Veterinary Medicine

50. MOTION (R. Gilmour/G. Keefe) to approve the proposed course number change for VHM 353 - Career and Practice Management to VHM 363.

VHM ~~353~~ 363 - CAREER AND PRACTICE MANAGEMENT

7. Annual Reports (For Information)

The following two annual reports were circulated to Senators for information:

i) Academic Planning and Curriculum Committee Report

ii) Senate Research Advisory Committee Report

8. Other Business

A request was made to ensure the wording we are using around course discontinuation in the academic calendar dates is consistent with our current language. Currently, we make no reference to academic penalty. We indicate instead there is no discontinuation beyond a specific stated date.

9. Adjournment

The meeting adjourned at 5:15 p.m.

Respectfully Submitted

Kathleen Kielly
Secretary of Senate