

**MOUNT ALLISON  
MEETING OF THE UNIVERSITY SENATE  
16 March 2011, 3:30 p.m. Tweedie Hall,**

**Present:** R. Campbell, P. Berry, D Greenwood, B. Fleming, B. Gnassi, J. Ollerhead, J. vanderLeest, M. Boehringer, T. Craig, K. Ghandi, R. Hudson, A. Irwin, J. Rogers, F. Black, C. Brett, G. Briand, S. Claxton-Oldfield, J. Devine, R. Edwards, Z. Finkel, D. Fleming, R. Ireland, J. Dryden, J.C. Martinez, P. Sianchuk, B. Ellis, E. Fraser, K. Geiger, A. Khattar, M. Kinney, B. Smith, N. Walker, R. Bryne, S. Gregg-Wallace, G. Jollymore, D. Stewart.

**Regrets:** C. Parker, M. Imbeault, R. Majithia, K. Bamford, T. Holownia, E. Naylor, B. Smith

**01.03.11 Approval of the Agenda**

**Motion (Boehringer/Craig): that Senate adopt the Agenda as circulated.**

**Motion CARRIED**

**02.03.11 Approval of Senate Minutes of 17 February 2011**

**Motion (Craig/Irwin): that Senate adopt the Minutes of 17 February 2011.**

**Motion CARRIED**

**03.03.11 Business Arising from the Minutes**

B. Gnassi reported that instructions for access to Bourinot's rules will be on all Senator's Moodle sites. He thanked Brian McNally, Toni Roberts and Kristian Strickland for their efforts in making this available. The Secretary of Senate will send a notice informing all Senators of this.

R. Campbell reported that he is pleased with how events are unfolding for our students in the aftermath of the Moncton Flight College bankruptcy. Though it looks reasonably promising for next year, the agreement with the new owners will likely have to be renegotiated in the fall.

The Chair also reported on the University budgeting process, informing senators that the provincial budget will be released on Wednesday, March 23<sup>rd</sup>. Currently, the university's budget planning documents contain no planned increases for government funding and tuition, although this is not the likely outcome. The forecast in this scenario presents an \$800,000 challenge. The government will reveal the increase in government funding in its budget speech.

#### **04.03.11 Report from the Chair**

R. Campbell reported on the activities of the Vice-President Academic search committee. It has had its first meeting and will be communicating with the University community on the process that it will follow. Robertson-Surette has been hired as the consulting firm to assist with the search.

The Chair reported that enrollment picture looks normal but he cautioned that an acceptable final figure will only be achieved with hard work, in what is a extremely competitive recruiting world.

A notice has gone out changing the time, but not the date, of the joint Senate-Faculty Council meeting in April to 3:30pm.

R. Byrne described the recruitment of new student as a "tight market" and he commended the Admissions Department, particularly mentioning Jocelyn Ollerhead, for its hard work in converting applicants to students. The numbers from the Atlantic Provinces and Ontario are strong. Applications from international students are down though acceptances from this group have increased when compared to last year.

Mention was also made of the efforts of the International Centre regarding the tragedy in Japan and the troubles in the Middle East, both with respect to providing support for students and in education activities centered on these events.

#### **05.03.11 Report from the Committee on University Planning**

The interim Chair of the Committee reported that at its last meeting, a presentation was made by the SAC on the budget, and it included a good discussion of the tuition issue. The external reviews of departments were also considered, and the Deans will be communicating with the departments concerned.

#### **06.03.11 Report from Academic Matters**

Note: additions/changes are indicated in bold text, deletions are indicated with strikethrough.

#### **Motion (vanderLeest/Gnassi): that Senate approve the following changes to Mathematics and Computer Science:**

The deletion of the following two courses:

MATH 1131 (3 CR) MATHEMATICS FOR LIFE AND ENVIRONMENTAL SCIENCE  
MATH 4950 (6 CR) INDEPENDENT STUDY IN MATHEMATICS

The addition of the following new course:

**MATH 1151 (3.00 CR)**  
**APPLIED CALCULUS**

**Prereq:** A passing score on the Mathematics Placement Test or MATH 1011; or permission of the Department.

**Exclusion:** MATH 1111

**This course introduces differential and integral calculus with an emphasis on applications. Topics include modeling with functions, interpretation of the derivative and integral, and some computational methods. (Format: Lecture 3 Hours, Laboratory 1.5 Hours)**

**[Note 1: The course is designed for students in life sciences and commerce who do not intend to take MATH 1121.]**

Changes to the following courses:

**MATH 1011 (3.00 CR)**  
**~~SETS, FUNCTIONS AND RELATIONS~~**

**Exclusion:** Any version of MATH 1011 previously offered with a different title

This course ~~will~~ focuses on the real number system, inequalities, plane analytic geometry (lines and conics), functions, inverse functions, polynomials, rational functions, trigonometric functions, **and** exponential and logarithmic functions. **It emphasizes** fundamental methods of graphing functions using non-calculus based techniques, ~~will be emphasized.~~ (Format: Lecture 3 Hours, Laboratory 1.5 Hours)

**[Note 1: This course is primarily intended for non-science students or as a prerequisite for MATH 1111 or 1151 for those students who have not passed the Mathematics Placement Test. Science students who have passed the Mathematics Placement Test require the permission of the Department of Mathematics and Computer Science to enroll in this course. ~~This course cannot be used to satisfy the Bachelor of Science degree requirement of a course in MATH/COMP (12.3.3).~~ Credit will not be given for this course if credit has already been granted for MATH 1111 or 1151.]**

**MATH 1111 (3.00 CR)**  
**~~INTRODUCTION TO CALCULUS I~~**

**Prereq:** A passing score on the Mathematics Placement Test, or MATH 1011; or permission of the Department.

**Exclusion:** **MATH 1151**; any version of MATH 1111 previously offered with a different title ~~Derivatives of the algebraic and exponential functions are developed. Applications include curve sketching, related rates, and optimization problems.~~ **This course introduces differential calculus.**

**Topics include derivatives of the algebraic, trigonometric, and exponential functions and applications such as curve sketching, related rates, and optimization problems.** (Format: Lecture 3 Hours, Laboratory 1.5 Hours) ~~[Note 1: A passing score on the Mathematics Placement Test, or MATH 1011; or permission of the Department is required. Students enrolling in Mathematics 1111 should normally have completed a university preparatory course in Mathematics designed to prepare them for University calculus.]~~

**MATH 1121 (3.00 CR)**  
**~~INTRODUCTION TO CALCULUS II~~**

**Prereq:** MATH 1111; or permission of the Department

**Exclusion:** Any version of MATH 1121 previously offered with a different title ~~The derivatives of trigonometric functions are introduced, various techniques of integration studied and some applications presented. Among these applications are: area between curves, volume work and elementary differential equations.~~

**This course continues the introduction to calculus begun in MATH 1111. Topics include techniques of integration; applications of the integral such as finding volumes and solving elementary differential equations; and sequences and series.** (Format: Lecture 3 Hours, Laboratory 1.5 Hours)

**MATH 2111 (3.00 CR)**

**MULTIVARIABLE CALCULUS**

Prereq: MATH 1121; or permission of the Department

~~Exclusion: MATH 2111 (Vector Calculus)~~

**This course introduces the calculus of functions of several variables, including** ~~Topics include~~ **Sequences and series, power series, Taylor and MacLaurin series; conic sections, quadric surfaces, polar co-ordinates in the plane, cylindrical and spherical co-ordinates in three space, functions of several variables: continuity, partial derivatives, tangent planes, chain rule, maximum and minimum values, Lagrange multipliers, and double and triple integrals.** (Format: Lecture 3 Hours)

The following changes to prerequisites and exclusions:

**MATH 1251 (3.00 CR)**

**FINITE MATHEMATICS**

~~Exclusion: MATH 1131~~

**MATH 2211 (3.00 CR)**

**DISCRETE STRUCTURES**

Prereq: MATH 1111 **or 1151**; or permission of the Department

~~Exclusion: MATH 2211 Discrete Mathematics~~

**COMP 2211 (3.00 CR)**

**DISCRETE STRUCTURES**

Prereq: MATH 1111 **or 1151**; or permission of the Department

~~Exclusion: MATH 2211 Discrete Mathematics~~

**MATH 2221 (3.00 CR)**

**LINEAR ALGEBRA**

Prereq: MATH 1111 **or 1151**; or permission of the Department

**MATH 2311 (3.00 CR)**

**STATISTICS I**

Prereq: University preparatory level Mathematics ~~or MATH 1011~~ and either MATH 1111, or registration in second year or higher; or permission of the Department

**MATH 3031 (3.00 CR)**

**HISTORY OF MATHEMATICS**

Prereq: ~~MATH 1121 (or 1131)~~ and 6 credits from MATH 2111, 2121, 2211 and 2221

**MATH 3111 (3.00 CR)**

**REAL ANALYSIS I**

Prereq: MATH 2111, ~~2121~~, 2211; or permission of the Department

~~Exclusion: MATH 3110~~

**MATH 3121 (3.00 CR)**

**REAL ANALYSIS II**

Prereq: MATH 3111; or permission of the Department

~~Exclusion: MATH 3110~~

**MATH 3151 (3.00 CR)**

**AN INTRODUCTION TO MATHEMATICAL MODELLING**

Prereq: MATH 1111 **or 1151** and third year standing; or permission of the Department

**MATH/ECON 3301 (3.00 CR)**

**INTRODUCTION TO GAME THEORY**

Prereq: ECON 1001 and ECON 1011; or MATH 1111 or **1151**; or permission of the Department

*Other Calendar entries affected: ECON/MATH 3301*

**MATH 3251 (3.00 CR)**

**INTRODUCTION TO COMBINATORICS AND GRAPH THEORY**

Prereq: MATH 2211, ~~2224~~; or permission of the Department

**MATH 4631 (3.00 CR)**

**THEORY OF COMPUTATION**

Prereq: COMP/MATH 2211, COMP ~~1721~~ or 1731; or permission of the Department

**COMP 4631 (3.00 CR)**

**THEORY OF COMPUTATION**

Prereq: COMP ~~1721~~ or 1731, COMP/MATH 2211; or permission of the Department

**MATH 4651 (3.00 CR)**

**CRYPTOGRAPHY**

Prereq: COMP ~~1631~~ or 1711, ~~1721~~ or 1731, COMP/MATH 2211, **MATH 2221**; or permission of the Department

**COMP 4651 (3.00 CR)**

**CRYPTOGRAPHY**

Prereq: COMP ~~1631~~ or 1711, ~~1721~~ or 1731, COMP/MATH 2211, **MATH 2221**; or permission of the Department

**COMP 1631 (3.00 CR)**

**INTRODUCTION TO COMPUTER SCIENCE**

Exclusion: COMP ~~1611~~, COMP ~~1711~~, any COMP 2000 level or higher

**COMP 1731 (3.00 CR)**

**PROGRAMMING TECHNIQUES AND ALGORITHMS**

Prereq: COMP 1631 or ~~COMP 1711~~; or permission of the Department

Exclusion: ~~COMP 1721~~

**COMP 2611 (3.00 CR)**

**DATA STRUCTURES AND ALGORITHMS I**

Prereq: COMP 1731; or permission of the Department

Exclusion: Any version of ~~COMP 2611~~ previously offered with a different title

**COMP 2931 (3.00 CR)**

**INTRODUCTION TO SYSTEMS PROGRAMMING**

Prereq: COMP 1731; or permission of the Department

Exclusion: ~~COMP 2911~~

**COMP 3721 (3.00 CR)**

**OBJECT-ORIENTED DESIGN AND METHODOLOGY**

Prereq: COMP 2631; or permission of the Department

Exclusion: ~~COMP 2621 (Data and File Structures II)~~, ~~COMP 2711~~

**COMP 4721 (3.00 CR)**

**SOFTWARE DESIGN**

Prereq: ~~COMP 2631, 2711 or 3721, 2931, 6 credits in Computer Science at the 3000/4000 level, and third or fourth-year standing; or permission of the Department~~

**COMP 4911 (3.00 CR)**

**COMPUTER NETWORKS**

Prereq: ~~COMP 2631, 2931, and 3 credits from Computer Science at the 3/4000 level; or permission of the Department~~

The following changes in the Major/Minor/Honours:

**B.A. or B.Sc. HONOURS in Computer Science and Mathematics is 75 or 87 credits earned as follows:**

- 18 from COMP 1631, 1731, 2211, 2611, 2631, 2931
- 15 from MATH 1111, 1121, 2111, 2121, 2221
- 9 from MATH 3111, 3211, 3311
- 3 from MATH 3011, 3221, 3231, 3251, 4221
- 3 from Mathematics at the 3/4000 levels
- 3 from COMP 3361, 3971
- 15 from COMP 3411, 3611, 3721, 3911, 4721
- 9 from Computer Science or Mathematics at the 3/4000 level
- ~~9~~ from CHEM 1001, 1021; PHYS 1051, 1551 (only for B.Sc.)
- 3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011 (only for Bachelor of Science)**

~~Note: \* COMP 2211 is cross-listed as MATH 2211~~

**B.Sc. MAJOR in Mathematics is 60 credits earned as follows:**

- 18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
- 3 from MATH 3111, 3141, 4131
- 3 from MATH 3011, 3211, 3221, 3231
- 3 from MATH 3151, 3311, 3411, 3511
- 15 from Mathematics at the 3/4000 level
- 6 from COMP 1631, 1731
- ~~6 from CHEM 1001, 1021~~
- ~~6 from PHYS 1051, 1551~~
- 9 from CHEM 1001, 1021; PHYS 1051, 1551**
- 3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011**

**B.Sc. HONOURS in Mathematics is 78 credits earned as follows:**

- 18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
- 6 from COMP 1631, 1731
- 21 from MATH 3011, 3111, 3121, 3211, 3221, 3311, 3411, 4131, 4221
- 15 from Mathematics at the 3/4000 level
- 6 from Mathematics or Computer Science at the 3/4000 level
- ~~6 from CHEM 1001, 1021~~
- ~~6 from PHYS 1051, 1551~~
- 9 from CHEM 1001, 1021; PHYS 1051, 1551**
- 3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011**

B.Sc. HONOURS in Mathematics and Physics is 90 credits earned as follows:

- 3** from **BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011**
- 18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
- 3 from COMP 1631
- 6 from CHEM 1001, 1021
- 12 from PHYS 1051, 1551, 2251, 2801
- 3 from MATH/PHYS 3451
- 9 from MATH 3111, 3211, 3311
- 6 from MATH 3141, 4131
- 6 from MATH 3121, 3131, 3151, 3221, 3231, 3321, 3411, 3531, 4111, ~~4211~~, **PHYS 4101, 4201, 4311, 4831, 4851, 4911**; **only 3 credits may be selected from the listed Physics courses**
- 18 from PHYS 3101, 3201, 3701, 3811, 3821, 4411
- ~~3~~ from Physics at the 4000 level
- 6 from PHYS 4990

**Note: Students pursuing Honours in Mathematics and Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department**

**B.Sc. MAJOR in Computer Science is 63 credits earned as follows:**

- 18 from COMP 1631, 1731, 2211, 2611, 2631, 2931
- 12 from COMP 3611, 3721, 3911, 4721
- 3 from COMP 3361, 3971
- 9 from Computer Science at the 3/4000 level
- 6 from MATH 1111, 2221
- ~~6~~ ~~3~~ from MATH 1121, ~~4131~~, 2311
- ~~6~~ ~~42~~ from CHEM 1001, ~~1021~~; PHYS 1051, 1551
- 3** from **BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011**

**B.A. or B.Sc. HONOURS in Computer Science and Mathematics is 75 or 87 credits earned as follows:**

- 18 from COMP 1631, 1731, 2211, 2611, 2631, 2931
- 15 from MATH 1111, 1121, 2111, 2121, 2221
- 9 from MATH 3111, 3211, 3311
- 3 from MATH 3011, 3221, 3231, 3251, 4221
- 3 from Mathematics at the 3/4000 level
- 3 from COMP 3361, 3971
- 15 from COMP 3411, 3611, 3721, 3911, 4721
- 9 from Computer Science or Mathematics at the 3/4000 level
- ~~9~~ ~~42~~ from CHEM 1001, 1021; PHYS 1051, 1551 (only for B.Sc.)
- 3** from **BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011 (only for B. Sc.)**

**B.A. or B.Sc. MINOR in Computer Science is 24 credits earned as follows:**

- ~~15~~ from ~~COMP 1631, 1731, 2211\*, 2611, 2631~~
- ~~3~~ from ~~MATH 1111~~
- 12** from **COMP 1631, 1731, 2611, 2631**
- 6** from **COMP 2211, 2931, MATH 1111**
- 6 from Computer Science at the 3/4000 level

And the following changes to the BSc degree requirements (12.3.3):

a) 6 credits from MATH 1111 **or 1151** plus one of MATH 1121,~~1131~~, 2221, or COMP 1631

### **Motion CARRIED**

#### **Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Physics Program:**

The deletion of the following course:

**PHYS 3521 (3.00 CR)**  
**PHYSICS OF THE LIVING BODY**

The addition of the following new course:

**PHYS 1041 (3.00 CR)**  
**PHYSICS FOR THE LIFE SCIENCES**

Exclusions: PHYS 1051, PHYS 3521

The course introduces and describes from a Physics perspective the many physical processes involving living organisms. The course is algebra-based and covers biomechanics, kinesiology, energy and the body, fluid flow, electrical signaling, electrocardiography and electroencephalography, sound and hearing, light and vision, microscopy, and imaging of brain function. (Format: Integrated Lecture/Collaborative Learning/Laboratory 6 Hours) [Note 1: This course is designed for students planning to major in a life science.]

#### **Other Calendar Entries affected:**

**PHYS 1551 (3.00CR)**  
**GENERAL PHYSICS II**

Prereq: PHYS 1051 **or 1041**, and Math 1111; or permission of the Department

The following changes in the Major/ Honours/ Minors:

MAJOR in Physics is 63 credits earned as follows:

6 from PHYS 1051, 1551  
6 from CHEM 1001, 1021  
**3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011**  
3 from COMP 1631, **MATH 2221**  
~~45~~ **12** from MATH 1111, 1121, 2111, 2121, ~~2221~~  
21 from PHYS 2251, 2801, 3101, 3451, 3701, 3811, 4411  
12 from Physics with at least 9 at the 3/4000 level, chosen in consultation with the Program Advisor

**Note: Students pursuing a Major in Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department**

HONOURS in Physics is 87 credits earned as follows:

- 63 credits as in the Major
- Note that 6 of the 12 from Physics at the 3/4000 level in the last line of the Major must be from the 4000 level (not counting those listed below)
- 6 from PHYS 4990
- 6 from PHYS 3201, 3821
- 3 from MATH 3141
- 3 from MATH **2221**, 3131, 3221, 3411, 4131
- 6 from Physics or Mathematics at the 3/4000 level, chosen in consultation with the Program Advisor

**Note: Students pursuing Honours in Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department**

MINOR in Physics is 24 credits earned as follows:

- 3 from **PHYS 1041**, 1051
- 3 from MATH 1111
- 3 from PHYS 1551, ~~3521~~
- 15 from MATH 1121 or Physics, including 6 from the 3/4000 level, chosen in consultation with the Program Advisor

Note: Only one of PHYS 1001, 1021, 1031, and 1401 can be used on the Physics Minor

Note: Students who complete the Minor in Applied Physics may not complete this Minor

MINOR in Applied Physics is 24 credits earned as follows:

- ~~9 from PHYS 1051, 1551, 2801~~
- 3 from PHYS 1041, 1051**
- 6 from PHYS 1551, 2801**
- 3 from MATH 1111
- 12 from PHYS **1401**, 3321, 3361, 3581, 3601, 3701, 3751, COMP 1631, **1731**, MATH 1121, **including 6 from the 3/4000 level, chosen in consultation with the Program Advisor**

MINOR in Astronomy is 24 credits earned as follows:

- ~~12-15-9-12~~ from PHYS 1001, 1021, 1031, ~~1051~~, 3001, 3021
- 3 from PHYS 1041, 1051**
- 9-12** from BIOL 3011, 3021, CHEM 2111, 2211, 3251, GENS 1401, 3451, PHIL 1651, 2511, PHYS 3701, 3811, 4311, 4411, 4851, or maximum of 3 credits from BIOL 2701, COMP 1731, GENS 2431, MATH 2311, PHYS 2801

Note: Many of these courses have one or more prerequisite courses. Students should plan their sequence of courses in consultation with the Program Advisor.

Note: At least 6 credits need to be from the 3/4000 level for this Minor

B.Sc. HONOURS in Mathematics and Physics is 90 credits earned as follows:

- 3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011**
- 18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
- 3 from COMP 1631
- 6 from CHEM 1001, 1021
- 12 from PHYS 1051, 1551, 2251, 2801
- 3 from MATH/PHYS 3451

- 9 from MATH 3111, 3211, 3311
- 6 from MATH 3141, 4131
- 6 from MATH 3121, 3131, 3151, **3221**, 3231, 3321, 3411, 3531, 4111, ~~4211~~, **PHYS 4101, 4201, 4311, 4831, 4851, 4911**; **only 3 credits may be selected from the listed Physics courses**
- 18 from PHYS 3101, 3201, 3701, 3811, 3821, 4411
- ~~3~~ from Physics at the 4000 level
- 6 from PHYS 4990

**Note: Students pursuing Honours in Mathematics and Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department**

### **Motion CARRIED**

**Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Biology Program:**

The deletion of the following courses:

BIOL 1211 (3.00 CR) WORLD ECOSYSTEMS

BIOL 3311 (3.00 CR) DEVELOPMENTAL BIOLOGY

(The course is being split into 3631 and 3641.)

BIOL 3331 (3.00 CR) SELECTED TOPICS IN MARINE SCIENCE I

BIOL 3341 (3.00 CR) SELECTED TOPICS IN MARINE SCIENCE II

BIOL 3611 MAMMALOGY

The addition of the following new courses:

**BIOL 3371 (3.00 CR)**

**PRINCIPLES OF AQUACULTURE**

**Prereq: BIOL 2401 or permission of the Department**

**Exclusion: BIOL 3991 Principles of Aquaculture**

This course introduces the history, practice, and future of aquaculture with particular emphasis on development of finfish aquaculture in Atlantic Canada. Topics include biology of growth, culture of live feed, hatchery techniques, health, nutrition, engineering, economics, and public policy. (Format: Lecture 3 Hours, Laboratory 3 Hours)

**BIOL 3631 (3CR)**

**EMBRYOLOGY**

**Prereq: BIOL 2401; or permission of the Department**

**EXCLUSION: BIOL 3311**

The course provides a foundation to the rapidly expanding field of Developmental Biology, which draws upon the disciplines of Cell Biology, Genetics, and Molecular Biology. This course focuses on the structural changes exhibited during the development, differentiation, and growth of organisms. Gametogenesis, fertilization, and embryogenesis are closely examined in a variety of model organisms. Laboratory exercises are aimed at reinforcing the student's understanding of the concepts and stages of development. (Format: Lecture 3 Hours, Laboratory 3 hours)

**BIOL 3641 (3CR)**

**GENETIC REGULATION OF DEVELOPMENT**

**Prereq:** BIOL 2601; or permission of the Department

**EXCLUSION:** BIOL 3311

This course focuses on the mechanisms responsible for controlling development. Topics may include signaling pathways, homeotic genes, epigenetic gene regulation, and applications including developmental diseases, cloning, and stem cells. (Format: Lecture 3 Hours)

### **BIOL 4621 (3CR)**

#### **GENES, CELLS, AND DISEASE**

**Prereq:** BIOL 2601 and ONE of Biol 3521, 3211, Bioc 3031, or permission of the Department

**Exclusions:** BIOL 3991, 4991 Genes, Cells, and Disease

This course examines the genetic basis of cellular processes and organelles such as telomeres, nuclear architecture, cytoskeleton, intracellular transport, the extracellular matrix, cell cycle control, and the contribution to disease when these processes are abnormal. (Format: Lecture 3 Hours)

The following changes in the Major and Honours programs:

MAJOR in Biology is ~~63~~ **60** credits earned as follows:

6 from BIOL 1001, 1501

3 from PHYS 1051, **1041**

~~3~~ from PHYS 1551, 3521

~~6~~ from MATH 1111, and three other credits in Mathematics or Computer Science

~~selected from~~ MATH 1121, 1131, 1251, 2211, 2221, 2311, or COMP 1631

**3 from MATH 1111 or 1151**

**3 from MATH 1121, 2221, or COMP 1631**

3 from CHEM 1001, ~~1021~~

3 from BIOC 1001

~~21~~ **18** from BIOC 2001, BIOL 2101, 2301, 2401, 2601, 2701, 3011, 3101

18 additional credits from Biology at the 3/4000 level

**Rationale:** This change is being made as a consequence of the changes in the Science core approved last year, to bring the program more in line with other, modern Biology B.Sc programs, and to take advantage of more appropriate courses being proposed by the Physics and Mathematics programs.

HONOURS in Biology is ~~78~~ **75** credits earned as follows:

~~63~~ **60** as in the major, including .....

**Rationale:** This change is being made as a consequence of the above change in the structure of the Major.

**Motion CARRIED**

**Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Geography and the Environment Program:**

Changes in the following courses:

**GENS 3451 (3.00 CR)**

**EARTH SYSTEM SCIENCE**

~~Prereq: GENS 1401, GENS 2421; 6 credits from BIOL 1001, CHEM 1001, PHYS 1051; or permission of the Department~~

**Prereq: GENS 1401, GENS 2421; any 6 credits from BIOL 1001, BIOL 1501, BIOC 1001, CHEM 1001, PHYS 1041, PHYS 1051; or permission of the Department**

Exclusion: ENVS 3001

This course integrates atmospheric, oceanographic, geological, and biological concepts with a historical perspective to introduce ~~the student to~~ the major processes that have shaped the Earth's environment. The course examines climatic processes on geological time scales, the evolution of organisms, the cycling of elements, and the feedbacks between these processes. (Format: Lecture 3 Hours, ~~Laboratory and Seminars 3 Hours~~)

**GENS 3461 (3.00 CR)**

**OCEANOGRAPHY**

~~Prereq: GENS 1401, GENS 2421; 3 credits from BIOL 1001, 1501, BIOC 1001; 3 credits from CHEM 1021, PHYS 1051; or permission of the Department~~

**Prereq: GENS 1401, GENS 2421; any 6 credits from BIOL 1001, BIOL 1501, BIOC 1001, CHEM 1001, PHYS 1041, PHYS 1051; or permission of the Department**

This course introduces ~~students to~~ the interdisciplinary field of Oceanography, covering many of the fundamental biological, chemical, geological, and physical processes in the ocean. Topics include the physical and chemical properties of seawater, oceanic box models and climate models, controls on the vertical and horizontal distribution of elements in the sea, controls on primary production, ~~the redox sequence in sediment diagenesis,~~ and the climate record in ocean sediments. (Format: Lecture 3 Hours, Laboratory 3 Hours)

The following changes in the Major be approved:

**MAJOR in Environmental Science is 63 credits earned as follows:**

~~3 from GENS 1401~~

**6 from GENS 1401, 2421**

3 from GENV 1201, 2001, 2101, ANTH 2501, PHIL 1651

~~6 from BIOL 1001, 1501, 2101, BIOC 1001, 2001~~

**9 from BIOL 1001, 1501, 2101**

~~6 from CHEM 1001, 1021~~

**3 from CHEM 1001**

~~6 from PHYS 1051, 1551 or 3521~~

**3 from PHYS 1041, 1051**

**6 from PHYS 1021, 1031, 1551, CHEM 1021, BIOC 1001, 2001**

~~6 from MATH 1111, Math 1121 or COMP 1631~~

**3 from MATH 1111, 1151**

**3 from MATH 1121, MATH 2221, COMP 1631**

3 from BIOL 2701, MATH 2311, GENS 2431

- 6 from Biology, Biochemistry, Chemistry, Computer Science, Science credits from Geography and Environment, Mathematics, or Physics at the 2000 level\*
- 24 from complementary science courses at the 3000/4000 level chosen in consultation with the Program Advisor\*

**Note:** \*Many 3000/4000 level courses will have one to several prerequisite courses.

**Note:** \* Consultation must occur before the student's second year of study.

## Motion CARRIED

### **Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Psychology B.Sc Major:**

**B.Sc. MAJOR in Psychology is 60 credits, including 42 from Psychology earned as follows:**

- 6 from PSYC 1001, 1011
- 6 from PSYC 2001, 2011
- 6 from PSYC 2101, 2201, 2301
- 12 from Psychology at the 3/4000 level, with a maximum of 3 credits from PSYC 4950/51
- 3 from Psychology at 4000 level, excluding PSYC 4950/51
- 9 from Psychology

Plus, 18 credits from Science:

- ~~3 from PHYS 1051~~
- ~~3 from PHYS 1551, 3521~~
- ~~6 from CHEM 1001, 1021~~
- 6 three from MATH 1111 **or** MATH 1151, and three other credits from **Mathematics or Computer Science selected from** MATH 1121, 1131, 1251, 2211, 2311, MATH 2221, or COMP 1631

- 3 from PHYS 1041, PHYS 1051, or CHEM 1001**
- 3 from BIOL 1001, BIOL 1501, or BIOC 1001**
- 6 from complementary science courses (Biochemistry, Biology, Chemistry, Computer Science, Math, Physics) excluding Psychology, chosen in consultation with the Program Advisor.** *Note: Courses should be selected keeping in mind the B.Sc. requirement of 30 credits from courses at the 3/4000 level.*

Following the introduction of this motion, the following amendment, circulated earlier to members of Senate, was made:

### **Motion (D. Fleming/Boehringer): that Senate approve the following amended Major:**

**B.Sc. MAJOR in Psychology is 60 credits, including 42 from Psychology earned as follows:**

- 6 from PSYC 1001, 1011
- 6 from PSYC 2001, 2011
- 6 from PSYC 2101, 2201, 2301
- 12 from Psychology at the 3/4000 level, with a maximum of 3 credits from PSYC 4950/51

- 3 from Psychology at 4000 level, excluding PSYC 4950/51
- 9 from Psychology

Plus, 18 credits from Science:

- ~~3 from PHYS 1051~~
- ~~3 from PHYS 1551, 3521~~
- ~~6 from CHEM 1001, 1021~~
- 6 three from MATH 1111 **or MATH 1151**, and three other credits from **Mathematics or Computer Science selected from** MATH 1121, ~~1131, 1251, 2211, 2311~~, MATH 2221, or COMP 1631

- 3 from PHYS 1041, PHYS 1051**
- 3 from CHEM 1001, BIOC 1001**
- 3 from BIOL 1001, BIOL 1501**
- 6 from complementary science courses (Biochemistry, Biology, Chemistry, Computer Science, Math, Physics) excluding Psychology, chosen in consultation with the Program Advisor.**  
*Note: Courses should be selected keeping in mind the B.Sc. requirement of 30 credits from courses at the 3/4000 level.*

D. Fleming referred to his document which had been circulated, and described his amendment as a minor change to the proposal from Academic Matters; leaving more flexibility for first year students and more consistency with other science majors.

J. vanderLeest spoke against the proposed amendment, stating that this version of the major already been considered. The proposal put forward in the Academic Matters report is consistent with current calendar regulations bringing the Psychology Science major in line with the department's Arts major, making course selection clearer for first year students. Finally, he asked where the final control over the major should rest with the department concerned or with other departments.

S. Claxton-Oldfield stated that the Psychology Department had opted for more flexibility when crafting this major, as it is more consistent with the department's other major. He agreed it may give less flexibility to students switching from Psychology to Physics with the Science program, but that more flexibility would be allowed for students moving between the Psychology's two majors.

J. Ollerhead spoke as Dean of Science and clarified that this issue had been discussed by the Science Heads without an agreement having been reached. Further he felt that the proposed amended major was not as flexible as the major proposed by Psychology and by Academic Matters, but that it was more flexible than the existing B.Sc. major. He supported the major being proposed by Academic Matters, and suggested that the changes made last year in the Science core allows for this change to be made to the major.

M. Boehringer inquired about the number of student switching between the different programs. J. Ollerhead responded that there was no numbers for this as students do not have to declare their programs until the end of their second year.

K. Ghandi commented that he did not wish to create impediments for students wishing to switch into the physical sciences.

Following this the question was called.

**Motion DEFEATED.**

Following this was a vote on the main motion.

## Motion CARRIED

### **Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Drama Studies Program:**

The following changes to courses:

#### **DRAM 2161 (3.00 CR)**

##### **~~PRODUCTION I~~ THEATRE PRODUCTION**

**Prereq:** DRAM/ENGL 1701 (or DRAM/ENGL 2021); or permission of the Department

**Exclusion:** Any version of DRAM 2161 previously offered with a different title

~~Students will~~ This course allows students to develop competence in basic stagecraft, chiefly set construction, light, and sound; in stage management, production management, technical direction, lighting, and sound design; and in basic drafting and technical drawing. (Format: Lecture/Workshop 3 Hours)

#### **DRAM 3161 (3.00 CR)**

##### **~~PRODUCTION II~~ THEATRE DESIGN**

**Prereq:** ~~DRAM 2161~~ DRAM/ENGL 1701; or permission of the Director of Drama

**Exclusion:** DRAM 3061; any version of DRAM 3161 previously offered with a different title

This course will explore theatre architecture, set design, costume design, scenic painting, properties, mask-making, and historical research in support of **theatrical** design. (Format: Lecture/Workshop 3 Hours)

#### **DRAM 4011 (3.00 CR)**

##### **ADVANCED THEATRICAL INTERPRETATION**

**Prereq:** Permission of the Program Director

This course involves projects in areas such as acting, directing, writing, and design as assigned within the Windsor Theatre's season by the Director of Drama. Practical results are supported by written or visual materials as appropriate. (Format: Independent Study) [Note 1: ~~Permission of the Director of Drama~~  
**Students may register for DRAM 4011 more than once, provided the subject matter differs.]**

The following changes in the Minor and Major:

#### **MINOR in Drama is 24 credits earned as follows:**

15 from DRAM/ENGL 1701; DRAM 2151, 2161, 3001, 3151

3 from DRAM 3161, 3171, 4011

6 from CLAS 3201, 3211; DRAM 4951, ~~4991~~ **1991-4991**; ENGL 2211, 3211, 3311, 3431, 3551, 3561, 3611, 3621; MUSC 3201, 3271; SPAN 3321

~~Note: \* Drama 4951 and 4991 may be taken for credit more than once if the topic differs~~

#### **MAJOR in Drama is 60 credits earned as follows:**

##### **Drama Core is 24 credits as follows:**

3 from DRAM/ENGL 1701

15 from DRAM 2151, 2161, 3001, 3151, 3161

3 from DRAM 4011

3 from DRAM 3171, 4951, ~~4991~~ **1991-4991**

**Note:** \* ~~DRAM 4951 and 4991 may be taken for credit more than once if the topic differs~~

### **Dramatic Literature**

21 to 27 from CLAS 3201, 3211; DRAM ~~4011~~ **4951\*** (~~if not counted in the core and if the subject is predominantly literary~~); ENGL 2211, 3211, 3311, 3431, 3551, 3561, 3611 or 3621; SPAN 3321 and from the following when the topic is dramatic literature: English 4000 series; GERM ~~3231, 3301, 3311, 4030, 4950/4951~~ **1991-4991, 4950/51**; SPAN 3060, 4950/51

9 to 15 from complementary courses to be chosen in consultation with the Drama Program Advisor. The following are particularly recommended: ANTH 2231, 4421; CANA 2011; COMM **3271**, 4301 DRAM 4011\* (~~if not counted above~~); English credits at the 1000 level, ENGL 3621, 3850, 387 3881, 3921; FINA 1901, 1911, 1921, 1931, FINH 2001, 2011; FREN 2601, 2801, 3801; GERM **2601**, 2701; MUSC **1991-4991**, 1001, 1011, 1101, 1111, 2001, 2011, 2679, **3201**, 3271, 3301, 3679, 4679; SOCI 3451; WOST 3001; and from the following courses when their subject is appropriate: ANTH 4901, ~~4911~~ **1991-4991**; CANA ~~4251~~ **1991-4991**, ~~4600~~ **4601**, 4951; ENGL ~~4901~~ **1991-4991**; FREN 4951; GERM **1991-4991**, 4950/4951; SPAN ~~4800/4801~~ **1991-4991**, 4950/51

**Note:** \*Students may take DRAM 4011 and 4951 more than once to count in the Core and Dramatic Literature provided the topic differs.

**Note:** Students may allow up to 6 credits in English for: DRAM 2151 "Introduction to Acting", DRAM 2161 "Production I", DRAM 3001 "Dramatic Theory", DRAM 3151 "Principles of Directing", and DRAM 3161 "Production II".

### **Motion CARRIED**

### **Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Music Program:**

The deletion of the following courses:

#### **MUSC 4191 Analytical Techniques II**

**Other calendar entries affected:** MUSC 4181: Analytical Techniques I

#### **MUSC 4601 Collaborative Keyboard IV**

**Other calendar entries affected:** None.

The addition of the following new courses:

#### **MUSC 1703 (3.00 CR)**

#### **AURAL SKILLS AND MUSICIANSHIP I**

**Prereq:** MUSC 1011; or Entrance Assessment; or permission of the Department

This course studies the practical aspects of music theory. It includes practice in aural musicianship skills, including sight-singing, interval recognition, dictation, improvisation, and keyboard skills. (Format: Integrated Lecture and Laboratory 1.5 Hours)

**MUSC 1801 (3.00 CR)**  
**INTRODUCTION TO APPLIED MUSIC I**

**Prereq:** Audition

This applied course ~~involves~~ **provides** individual weekly instruction in vocal or instrumental music, emphasizing technical proficiency and the development of interpretive insight. This course stresses the development of the ability to perform with competence and musical understanding. (Format: Private Instruction 1 Hour) [Note: MUSC 1801 is open to students from other degree programs by permission of the Department, dependent on available space and completion of a successful audition. All other applied music courses are only open to students in the B.Mus. program.]

**MUSC 1811 (3.00 CR)**  
**INTRODUCTION TO APPLIED MUSIC II**

**Prereq:** MUSC 1801; or permission of the Department

This applied course continues the weekly instruction started in MUSC 1801, culminating in a juried performance at the end of the term. (**Format:** Private Instruction 1 Hour)

**MUSC 2703 (3.00 CR)**  
**AURAL SKILLS AND MUSICIANSHIP II**

**Prereq:** MUSC 1703; or permission of the Department

This course continues work on aural skills and musicianship begun in MUSC 1703. (**Format: Integrated Lecture and Laboratory 1.5 Hours**)

**Other calendar entries affected:** MUSC 2101 and Program Requirements.

**MUSC 3281 (3.00 CR)**  
**THE BEATLES**

**Prereq:** Normally MUSC 1111 is expected. However, non-B. Mus. or B.A. Major in Music students with third year standing will be admitted; or permission of the Department

**Excl:** MUSC 3991: The Beatles

This course addresses the musical, social, and cultural issues surrounding one of the most important rock groups of the twentieth century. Drawing on a large body of recent scholarship, the course considers the Beatles' albums from early covers of music by other artists to their own "song cycles" such as *Sgt. Pepper* and *Revolver*. (Format: Integrated Lecture and Laboratory)

**MUSC 3581 (3.00 CR)**  
**APPLIED MUSIC VI WITH SHARED RECITAL**

**Prereq:** MUSC 3501 and permission of the Department which is only granted after a successful recital application jury

**Exclusion:** MUSC 3511

This applied course continues the weekly instruction started in MUSC 3501, with the addition of the preparation and execution of a public recital program of approximately 30 minutes of music under the supervision of the student's Applied Music teacher. (Format: Private Instruction 1 Hour) [Note 1: Students intending to register for MUSC 3581 must normally have achieved a grade of at least A- in MUSC 2511; must have participated in two Collegia, or the equivalent, since enrolling in the B.Mus. program; and must pass a Recital Application Jury.]

**Other calendar entries affected:** Program requirements

That the following changes to courses be approved:

**MUSC 1101 (3.00 CR)**  
**MATERIALS OF MUSIC I**

**Prereq:** MUSC 1011; or Entrance Assessment

This course is a study of the harmonic, melodic, rhythmic, and formal materials of music through analysis, writing, and listening. ~~It includes practice in aural musicianship skills including sight-singing, interval recognition, dictation, improvisation, and keyboard skills.~~ (Format: Lecture 3 Hours, ~~Laboratory 2 Hours.~~)

**MUSC 1201 (3.00 CR)**  
**MUSIC HISTORY AND LITERATURE I**

**Prereq:** Registration in the first year of the B.Mus. or B.A. (Major or Honours in Music), Minor in Music; or permission of the Department

**Coreq:** MUSC 1101

This is the first course in a series designed to introduce students to the history and literature of music in the Western World. This course ~~will~~ provides an overview of the various style eras and genres of Western Art Music. Changing concepts, styles, forms, and media ~~will be~~ **are** considered and compared through readings, score study, recordings, **and** library research, ~~and classroom performance.~~ (Format: Lecture 3 Hours)

**MUSC 1501 (3.00 CR)**  
**APPLIED MUSIC I**

**Coreq:** ~~MUSC 1603~~ **1601**

This applied course ~~involves~~ **provides** individual weekly instruction in vocal and instrumental music and facilitates technical command, interpretive insight, and understanding of pedagogical procedures. This course stresses the development of the ability to perform with competence and musical understanding while providing a comprehensive background of music of various periods, styles, and composers, thus allowing students to interpret representative works of the past and present. (Format: Private Instruction 1 Hour) [Note 1: For 1501; audition required. Note 2: All piano and organ students enrolled in MUSC 1501/1511 must take ~~MUSC1603~~ **1601**. Note 3: ~~MUSC 1501 is open to students from other degree programs by permission of the Department, dependent on available space and completion of a successful audition.~~]

**MUSC ~~1603-1601~~ (3.00 CR)**  
**COLLABORATIVE KEYBOARD I**

**Exclusion:** MUSC 2603 Collaborative Keyboard I

This course provides students with the basic knowledge and skills necessary for artistic accompaniment. Students examine different styles of music including Art Song, Lieder, and Oratorio as well as accompaniments for instrumental works and orchestral reductions. (Format: Integrated Lecture and ~~Laboratory 1.5 Hours~~ **3 Hours**) [Note 1: All piano and organ students registered for MUSC 1501 must also take MUSC 1601]

**MUSC 2101 (3.00 CR)**

**MATERIALS OF MUSIC III**

**Prereq:** MUSC 1111; or permission of the Department

This course is a review and continuation of MUSC 1111, covering more advanced materials in the harmonic, melodic, rhythmic, and formal elements of music. ~~It includes further development of aural musicianship skills practiced in MUSC 1101 and 1111.~~ (Format: Lecture 3 Hours, ~~Laboratory 2 Hour~~)

**MUSC 3341 (3.00 CR)**

**STRING METHODS I**

**Prereq:** MUSC 1111; or permission of the Department

This practical course acquaints the student with the basic skills necessary for the playing and teaching of the instruments of the bowed string family. The instructor assigns instruments, and the student plays one instrument (violin, viola, cello, or bass) for the duration of the course. The course concentrates on basic techniques of posture, position, bowing, and left-hand finger patterns. (Format: Integrated Lecture and Laboratory 3 Hours)

**Other calendar entries affected:** The current calendar listing for MUSC 3343 should be removed.

**MUSC 3421 (3.00 CR)**

**INSTRUMENTAL CONDUCTING**

**Prereq:** MUSC 2111, MUSC 3401; or permission of the Department

This course is designed to train students in conducting, leading, and rehearsing an instrumental ensemble, particularly the symphonic band. Other topics include instrumental ensemble literature, score study, and instrument characteristics. (Format: Lecture/Laboratory 3 Hours)

**MUSC 4181 (3.00 CR)**

**ANALYTICAL TECHNIQUES I**

**Prereq:** MUSC 2111; or permission of the Department

This course develops skills in the analysis of music through examination of scores drawn from a wide range of periods, styles, and media. It introduces various theories of coherence and unity (Schenker, Hindemith, Messiaen, et al.). (Format: Lecture 3 Hours)

**MUSC 4221 (3.00 CR)**

**PROSEMINAR IN MUSIC HISTORY**

**Prereq:** MUSC 2211; or permission of the Department

~~**Exclusion:** Any version of MUSC 4221 previously offered with a different title~~

This is a senior seminar on the formulation of critical concepts as they relate to specific styles and works, including questions of analytical systems, the formation of values, reception theory, aesthetics, and allied matters. It emphasizes the development of research, bibliographical, ~~and writing skills, as well as on the,~~ **and presentation skills** of oral reports. ~~NOTE(S): Students may register for MUSC 4221 more than once, provided the subject matter differs.~~ (Format: Seminar 3 Hours)

**MUSC 4581 (3.00 CR)**

**APPLIED MUSIC VIII WITH ~~CREDITED~~-SHARED RECITAL**

**Prereq:** MUSC 4501, and permission of the Department, ~~which is only~~ granted **only** after a successful recital application jury.

**Exclusion:** MUSC 4511; MUSC 4591; any version of MUSC 4581 offered with a different title.

This **applied** course **continues the weekly instruction started in MUSC 4501, with the addition of** the preparation and execution of a public recital program of approximately 30 minutes of music under the supervision of the student's Applied Music teacher. (Format: Private Instruction 1 Hour) [Note 1: Students intending to register for MUSC 4581 must ~~attain~~ **normally have achieved a grade of** at least A- in MUSC 3511 **or 3581, and** must have participated in ~~at least two Collegia recitals, (or the equivalent)~~ since enrolling in the B.Mus. program, **and must pass a Recital Application Jury.**]

**MUSC 4591: APPLIED MUSIC VIII WITH ~~CREDITED~~ FULL RECITAL**

**Prereq:** MUSC 4501, and ~~approval~~ **permission** of the Department, ~~which is only~~ granted **only** after a successful recital **application** jury

**Exclusion:** MUSC 4511; MUSC 4581; any version of MUSC 4591 offered with a different title.

This **applied** course ~~continues the weekly instruction started in MUSC 4501, with the addition of~~ **involves** the preparation and execution of a public recital program of approximately 60 minutes of music under the supervision of the student's Applied Music teacher. (Format: Private Instruction 1 Hour) [Note 1: Students intending to register for MUSC 4591 must ~~attain~~ **normally have achieved a grade of** at least A- in MUSC ~~3511~~ **3581** and must **pass a Recital Application Jury** ~~have participated in at least one shared recital.~~]

**MUSC 4603 (3.00 CR)**

**COLLABORATIVE KEYBOARD IV**

**Prereq:** MUSC 3603; or permission of the Department

~~**Exclusion:** MUSC 4611 Collaborative Keyboard IV~~

This course provides students with practical experience in collaborating with vocalists and instrumentalists, building on the skills learned in MUSC 3603. (Format: Private Instruction 0.5 Hours)

~~THE FOLLOWING ARE ONE CREDIT MUSIC ENSEMBLES~~

Music ensembles focus on developing skills and practical experience in performance and include public performances. (Format: Experiential) [Note 1: Music ensembles are open to all university students regardless of major, by audition held at the beginning of the Fall term.]

**MUSC 1619-4619 WIND ENSEMBLE**

**MUSC 1629-4629 CHAMBER ORCHESTRA**

**MUSC 1639-4639 SYMPHONIC BAND**

**MUSC 1649-4649 INSTRUMENTAL JAZZ ENSEMBLE**

**MUSC 1659-4659 ELLIOTT CHORALE**

**MUSC 1669-4669 CHORAL SOCIETY**

**MUSC 1689-4689 LARGE ENSEMBLE OF LIKE INSTRUMENTS (BRASS CHOIR)**

**MUSC 2679-4679 OPERA WORKSHOP \***

**\*Prereq:** Permission of the Department

The following changes in the Major/Minor/Honours program:

### 12.6.3 Requirements for Bachelor of Music Degree

In order to qualify for a Bachelor of Music Degree, a student must complete 120 credits including:

- a. ~~52-58~~ **51** credits from the following required core:
  - i. ~~42~~ **51** credits from MUSC 1101, 1111, 1201, 1211, **1703**, 2101, 2111, **2703**, 2201, 2211 and MUSC 1501, 1511, 2501, 2511, 3501, 3511 **or 3581, 4501**  
Note: all piano and organ students registered for MUSC ~~2501~~ **1501** must also take MUSC ~~2603~~ **1601**
  - ii. 3 ~~to 6~~ credits from MUSC ~~4501, 4511, 4581, 4591, 4601, 4611~~  
Note: ~~If only 3 credits are earned here, 39 Music elective credits must be completed.~~
  - iii. 4 credits from MUSC 1619-4619, 1629-4629, 1639-4639, 1659-4659, 1669-4669, 2679-4679
- b. ~~36-39~~ **33 – 36** credits from the following Music electives:
  - i. Theory and Composition (MUSC 2141, 2151, 3121, 3141, 3151, 3161, 4181, ~~4191~~)
  - ii. Music History and Literature (MUSC ~~2221, 2231~~, 3001, 3201, 3211, ~~3221~~, 3231, **3261, 3271**, 4221)  
Note: ~~MUSC 3211 and 4221 may be repeated if offered with a different topic~~
  - iii. Music Education (MUSC 3301, 3311, 3321, 3333, 3343, 4311, 4351, 4361)
  - iv. Performance Electives (MUSC 1521, **1601**, 2603, 2613, 3401, 3411, 3421, 3603, 3613, 4603, 4613, and MUSC **1619-4619**, 1629-4629, 1639-4639, 1649-4649, 1659-4659, 1669-4669, 2679-4679, 1689-4689)
  - v. General Elective (MUSC 4951; this course may be repeated if topic differs)
- c. ~~30-33~~ **27 – 30** non-Music electives

Note: Students may use these non-music electives to broaden their general knowledge or to develop a Minor area of study

**Note:** Students who choose to take zero, one, or three ensembles as part of their Music electives will have to complete a total of 121 credits to qualify for their Bachelor of Music degree.

**Note:** ~~Music Education and~~ Performance Electives may be offered in one term only or over two terms. Please consult the timetable for specific information.

### Disciplinary B.A. Programs

MINOR in Music is 24 credits earned as follows:

~~6 from 1101 and 1111~~

~~6 from 1201 and 1211; or 1001, 1011, 2001, 2011~~

**12 from 1101, 1111, 1201, 1211**

~~6 from 1001, 1011, 2001, 2011, 1201, 1211, 1501, 2101, 2111, 2141, 2151, 2201, 2211; Students must audition for entry to MUSC 1501~~

~~6 from Music courses at the 3000-4000 level~~

MAJOR in Music is 60 credits earned as follows:

24 from MUSC 1101, 1111, 1201, 1211, 2101, 2111, 2201, 2211

3 from MUSC 1619-4619, 1629-4629, 1639-4639, 1649-4649, 1659-4659, 1669-4669, 1689-4689, 2679-4679

15 from 3000-4000 level Music electives ~~or MUSC 1501~~

18 from elective credits chosen in consultation with the Department Head, at least 9 of which must be at the 3000-4000 level

~~Note: Students must audition for entry to MUSC 1501~~

Note: Ensemble credits must be completed over at least two years

J. vanderLeest reminded Senators that much of this was in response to the recent external review.

### **Motion CARRIED**

### **Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Women's Studies Program:**

The following change to program title and description:

#### **~~WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

~~Women's Studies~~ **Women's and Gender Studies** is an interdisciplinary program ~~with a~~ **that investigates from critical gender perspectives** focus on social, cultural, economic, and political issues ~~from the perspective of gender~~. Drawing on a substantial body of scholarship that challenges many of the assumptions and methods of traditional academic disciplines, ~~Women's Studies~~ **Women's and Gender Studies** creates new perspectives from which all students may analyze such issues as work, health, sexuality, violence, family, race, class, and ethnicity. The curriculum of the Minor in ~~Women's Studies~~ **Women's and Gender Studies** includes core courses in ~~Women's Studies~~ **Women's and Gender Studies** and elective courses in the following Departments or Programs: Anthropology, Canadian Studies, Classics, Drama, English, Fine Arts, Geography and Environment, History, International Relations, Modern Languages and Literatures, Music, Philosophy, Political Science, Psychology, Religious Studies, and Sociology. The core courses provide an introduction to the principles of ~~Women's Studies~~ **Women's and Gender Studies** as well as a more advanced study of the theoretical and methodological approaches of feminism.

The following changes to courses:

#### **~~WOST~~ WGST 1991 (3.00 CR)**

#### **~~SPECIAL TOPIC IN WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. Format: (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ~~WOST~~ **WGST 1991** more than once, provided the subject matter differs.]

**WOST WGST 2001 (3.00 CR)**

**INTRODUCTION TO ~~WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

Exclusions: **WOST 2001**

This course provides an introduction to ~~Women's Studies~~ **Women's and Gender Studies**, a discipline ~~which that~~ documents and analyzes ~~the women's~~ experiences and contributions of ~~women~~ **gender conditions** from a global and historical perspectives. ~~Students will be introduced~~ **It introduces students** to the core principles of the discipline of ~~women's studies~~ **gender analysis and women-centered research**. In addition, the course ~~will~~ examines key issues of research and analysis in ~~women's studies~~ **current scholarship on women and gender studies**, including social construction of sex, ~~and~~ gender, **race, and sexuality; patriarchy gender subordination; and** women's activism; and social change initiatives. (Format: Lecture 3 Hours)

**WOST WGST 2991 (3.00 CR)**

**SPECIAL TOPIC IN ~~WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. Format: (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ~~WOST~~ **WGST 2991** more than once, provided the subject matter differs.]

**WOST WGST 3001 (3.00 CR)**

**~~FEMINIST THEORIES~~ THEORIES OF GENDER, EQUALITY, AND DIVERSITY**

**Prereq:** WOST 2001 or **WGST 2001** or permission of the Instructor

Exclusions: **WOST 3001**

This course provides a comparative and critical analysis of various feminist **and gender** theories developed as explanatory frameworks for ~~the understanding of the~~ gender divisions within society: **as well as for how gender interconnects with a wide variety of social and historical conditions**. The course ~~will~~ reviews major feminist critiques of conventional approaches, and ~~will~~ offers an introduction to feminist thought. Theories examined include uniquely feminist theories such as radical feminism, ~~and~~ cultural feminism, **ecofeminism, contemporary critiques of racism, sexuality and post-modernism**, as well as feminist modifications of traditional social and political theories. Attention is given to perspectives ~~which that~~ emerge from the diversity of women's lives. (Format: Lecture 3 Hours)

**WOST WGST 3021 (3.00 CR)**

**~~FEMINIST EPISTEMOLOGY AND METHODOLOGY~~ GENDER, KNOWLEDGE, AND POWER IN RESEARCH**

**Prereq:** WOST 2001, 3001 or **WGST 2001, 3001 or combination thereof**; or permission of the Instructor

Exclusions: **WOST 3021**

This course examines feminist critiques and strategies relating to the construction of knowledge and research methodologies, with particular attention to both historical and contemporary debates on significant research issues. **In addition to exploring feminist epistemologies, it introduces** ~~students will be introduced~~ to the methods, techniques, and ethics involved in ~~feminist~~ **researching gender and other social factors and analysis**. The emphasis is both theoretical and practical: ~~students will therefore engage in the process of assessing and performing feminist research~~. (Format: Lecture 3 Hours)

**~~WOST~~ WGST 3991 (3.00 CR)**

**SPECIAL TOPIC IN ~~WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. Format: (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ~~WOST~~ WGST 3991 more than once, provided the subject matter differs.]

**~~WOST~~ WGST 4001 (3.00 CR)**

**CONTEMPORARY ISSUES IN FEMINISM AND GENDER STUDIES**

**Prereq:** WOST 2001, 3001, 3021, or **WGST 2001, 3001, 3021**; or permission of the Instructor

Exclusions: **WOST 4001**

This course provides an opportunity for students to study in considerable depth and detail selected contemporary issues of feminism and gender in a global context. The course may focus on issues such as gender and social movements, the politics of difference, theory and praxis debates, anti-feminist backlash, women and social change, femininities and masculinities, and feminist explorations of the body. (Format: Seminar Lecture 3 Hours)

**~~WOST~~ WGST 4950 (6.00 CR)**

**INDEPENDENT STUDY IN ~~WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ~~WOST~~ WGST 4950/51 more than once, provided the subject matter differs.]

**~~WOST~~ WGST 4951 (3.00 CR)**

**INDEPENDENT STUDY IN ~~WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ~~WOST~~ WGST 4950/51 more than once, provided the subject matter differs.]

**~~WOST~~ WGST 4991 (3.00 CR)**

**SPECIAL TOPIC IN ~~WOMEN'S STUDIES~~ WOMEN'S AND GENDER STUDIES**

**Prereq:** Second year standing; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ~~WOST~~ WGST 4991 more than once, provided the subject matter differs.]

The following changes in the Minor:

**MINOR in ~~Women's Studies~~ Women's and Gender Studies is 24 credits earned as follows:**

~~12-9~~ from ~~WOST~~ **WGST 2001, 3001, 3021, 4001**

**3** from **WGST 4001, 4950, 4951, 4991**

12 from CANA 3301, **CLAS 2521**, CLAS/HIST 2051, ENGL 3651, 3661, 4921, ~~FINA~~ **FINH 3081**, GENV 4811, HIST 1671, 3251, 3471, 3531, 4461, 4571, FREN 3821, 3851 INLR 3001, MUSC 3231, 3241, POLS 3031, 4001, PSYC 3511, RELG **1641, 1661**, 3411, 3811, **3821**, 4841, SOCI 2211, 3111, 4031, ~~WOST~~ **WGST 1991, 2991, 3991, 4950, 4951, 4991**

or from the following courses in any year when the Program Director approves that their content contains a significant ~~Women's Studies~~ **Women's and Gender Studies** component: ANTH 2231, 2401, 3101, 3531, **3861**, 3871, **4021**, 4421, 4621, ENGL 3561, GENV **2221, 3811, 4821**, HIST 3361, **4901, PHIL 1611, 3711**, RELG 3911, 3921, 4821, **SOCI 3441, 3451**

**Note:** Other courses from the following disciplines may also be approved by the Program Director when a significant ~~Women's Studies~~ **Women's and Gender Studies** component can be demonstrated:

Anthropology, Art History, Canadian Studies, Classics, English, French, German, Geography and Environment, Greek Drama, History, International Relations, Latin, Music, Philosophy, Political Science, Psychology, Religious Studies, Spanish, and Sociology.

Students interested in using courses from other disciplines towards this Minor must receive approval in writing from the Program Director during the term in which they are taking the course.

**Motion CARRIED**

**Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Philosophy Program:**

The following course title and description change:

PHIL 1601 (3.00 CR)

~~PLATO'S REPUBLIC~~ **PHILOSOPHY EAST AND WEST IN DIALOGUE**

**Exclusion: Any version of PHIL 1601 previously offered with a different title.**

~~A study of Plato's The Republic can serve as an introduction to almost all the issues that are central to our western philosophical tradition. The problems of virtue (temperance, courage, wisdom), justice, order (social, political and cosmological), knowledge, the nature of the psyche, beauty, and of reality in general will all arise in the study of this text, providing a good basis for discussion.~~

This course consists of a dialogue on fundamental philosophical issues presented in Plato's *Republic* and (usually in) a variety of texts from Western, Indian, Chinese, and African traditions. Topics for discussion may include the nature of morality, selfhood, God, reality, and knowledge. The use of non-western sources allows us to illuminate and evaluate central presuppositions and preoccupations of the western philosophical tradition that persist today. (Format: Lecture 3 Hours)

**Motion CARRIED**

**Motion (vanderLeest/Gnassi): that Senate approve the following changes to the Classics Program:**

The following changes in courses:

**CLAS 3501 (3.00 CR)**

**ARCHAEOLOGICAL FIELD COURSE**

Exclusion: ANTH 3321 ~~or 3911 if these were~~ if taken as archaeological field schools in which credit was received for excavation of material remains.

This course involves participation in an archaeological field project, through which students gain experience in archaeological methods such as site survey, supervised excavation, recording and interpretation of evidence, and the processing of finds. The field location varies according to the project. (Format: Field Course) [Note 1: Permission of the Department is Required. Note 2: This course is only available to students ~~through the Department of Continuous Learning~~ during the Spring/Summer term. Enrollment is limited and students should be aware of the additional costs of travel and participation fees.]

**CLAS 3511 (3.00 CR)**

**LABORATORY METHODS IN CLASSICAL ARCHAEOLOGY**

Coreq: CLAS ANTH 3321 ~~or 3911 if these were~~ if taken as archaeological field schools in which credit was received for laboratory analysis of material remains.

This course introduces students to the laboratory methods used by Classical archaeologists in the study of materials recovered from Greek and Roman sites. The field location and nature of the remains studied vary according to the project. (Format: Field Course) [Note 1: Permission of the Department is Required. Note 2: This course is only available to students ~~through the Department of Continuous Learning~~ during the Spring/Summer term. Enrollment is limited and students should be aware of the additional costs of travel and participation fees.]

**Motion CARRIED**

**07.03.11 Other Business**

N. Walker commented on the culture surrounding course evaluations following the adoption of the policy by Senate, and he informed Senators that the SAC is preparing a video for students on how to fill out a constructive course evaluation. He suggested that faculty could be of help by forwarding to the SAC examples of course comments that in their opinion were less than helpful.

**08.03.11 Adjournment**

There being no further business the meeting was adjourned at 4:55

**Respectfully Submitted,**

**Paul Berry  
Secretary of Senate**