

Report No. 3345

MEMORANDUM

To: Executive Committee of Faculty Council

From: Dr. Graeme Norval

Chair, Undergraduate Curriculum Committee

Date: March 15, 2012 for April 26, 2012 Faculty Council Meeting

Re: Creation of a Natural Sciences Elective Web Page

REPORT CLASSIFICATION

This is *Minor Policy Matter* that will be considered by the Executive Committee for approving and forwarding to Faculty Council for information.

BACKGROUND

Several programs have a "Natural Science Elective" in their curriculum. The set of courses listed is indeed short. Natural Sciences are defined (CEAB) as "The natural sciences component of the curriculum must include elements of physics and chemistry; elements of life sciences and earth sciences may also be included in this category. These subjects are intended to impart an understanding of natural phenomena and relationships through the use of analytical and/or experimental techniques." There is interest from students to expand the list of Natural Sciences electives, and such a broadening is consistent with all requirements. Currently, programs can approve such courses on an individual (by request) basis.

STRUCTURE

The Registrar's Office maintains webpages that advertises acceptable courses that meet the requirements of Humanities and Social Sciences (HSS) Electives as well as Complementary Studies (CS) Electives, and there is an established process to update the list.

It is proposed to create a similar webpage to define a broader set of acceptable Natural Science (NS) Electives. The information would presented would include things such as that presented below.

It is noted that courses that are described as "targeted for students in the Humanities" will be excluded.

General Notes on Natural Science Elective

- A) The Faculty of Arts and Science uses Distribution requirements (for students pre-2010), and Breadth requirements for students post-2010. The Breadths are:
- 1) Creative and Cultural Representations
- 2) Thought, Belief and Behaviour
- 3) Society and Its Institutions
- 4) Living Things and Their Environment
- 5) The Physical and Mathematical Universes

Courses with a Breadth, BR = 1, 2 and 3 are not acceptable, regardless of program or prefix. Also, Mathematics courses are not acceptable as NS electives

- B) The student is responsible to ensure they meet the pre-requisites (if any)
- C) Programs that work, and courses

Program	Prefix	Possible Courses
Anatomy	ANA	300Y; 301H1;
Astronomy & Astrophysics		
(AST101, AST201, – excluded)	AST	121; 120; 221, 251
Biochemistry (BCB – excluded)	BCH	any
Biology		
(BIO130 – excluded by BME205/CHE353)	BIO	230
Chemistry		
(CHM139 – excluded by APS104 or CHE11	2)CHM	138, 210
Ecology and Evolutionary Biology		
(exclusion 202, 204 214)	JEP, JMB, EEB	216, 234, 255
Centre for the Environment	ENV	all 2nd year but 200
Geography	GGR	100, & 200 SCI courses
Geology	GLG	200 level SCI courses
Human Biology	HMB	200 level SCI courses
Immunology	IMM	250
Nutritional Sciences	NFS	284
Physics	PHY	231, 256
Physiology	PSL	201, 280
Psychology		
(excluded for Industrial)	PSY	100

D) Add a set of engineering courses to this, such as CHE230S, CHE353F, etc.

PROCESS

The Undergraduate Curriculum Committee is composed of representatives from each program; the Vice-Dean, Undergraduate Studies; the Chair, First Year; the Associate Dean, Cross-Disciplinary Programs; and the Registrar's Office. The Committee meets regularly, and reviews changes to the curriculum.

PROGRAM

All programs are involved in these changes, and the impact on students in the various programs has been considered.

PROPOSAL/MOTION

For Information.