



CURRICULUM AND PROGRAM REVIEW COMMITTEE

Report to Academic Council
at its meeting of February 27th, 2018

FOR ACTION

1. Faculty of Science

a. Bachelor of Science – Major Program Modification: Applied and Industrial Mathematics Pathway

The Curriculum and Program Review Committee recommends:

That Academic Council approve the Advanced Entry pathway from Mathematics at TC Yeditepe University to the Applied and Industrial Mathematics (A.I.M.) program.

Rationale

The Faculty of Science has assessed the Yeditepe curriculum and determined that it sufficiently matches the curriculum for the A.I.M. program to allow students a 2+2 opportunity. Students will complete a modified first 2 years at Yeditepe, and then transfer directly into the 3rd year of the A.I.M. program and will be able to transfer directly into 3rd year. This addition will provide an opportunity for international students to transfer to UOIT and complete their credential, and is in line with the university's 2015-2020 International Plan. Moreover, all students will have the opportunity to gain an international perspective in mathematics.

b. Bachelor of Science – Major Program Modification: Biological Science – Environmental Biology Specialization

The Curriculum and Program Review Committee recommends:

That Academic Council approve a new specialization in Environmental Biology through the B.Sc. (Honours) Biological Science program.

Rationale

The Faculty of Science proposes to offer a new specialization in Environmental Biology through the B.Sc. (Honours) Biological Science program. This specialization would also include the Bachelor of Science and Management, and Co-operative Education program options. This specialization complements the Faculty of Science mission, which is committed to excellence and innovation in interdisciplinary teaching and research relevant to the needs of society and the environment. It also supports UOIT's mandate for offering "market driven" programs. As an interdisciplinary specialization, the Environmental Biology program makes extensive use of courses that already exist in Biological Science, Chemistry, and other Science programs.

c. Bachelor of Science – Major Program Modification: Computer Science

The Curriculum and Program Review Committee recommends:

That Academic Council approve the proposed modifications to the 3rd and 4th year Computer Science major requirements, including the Data Science and Digital Media specializations.

Rationale

Presently, year 3 and 4 of the Computer Science program/specializations have 15-16 prescribed Computer Science courses (including Computer Science electives). The Faculty of Science proposes that the 2 upper years of the programs be modified to include instead a breakdown of credit hours, of which Computer

Science courses are selected from specified course groups. Years 1 and 2 of the program/specializations will remain the same. In general, these changes will reduce the number of prescribed core courses in favour of a model where students complete their program requirements via courses selected from amongst set subject areas. This change will provide students with more flexibility to choose the courses that meet their interests and goals.

FOR INFORMATION

1. Faculty of Business and Information Technology

a. Bachelor of Information Technology – Minor Program Adjustment: Networking and Security Pathways

CPRC approved changes to the Pathway Program into the Networking and Security curriculum; which includes the Advanced Entry, IT Security Specialization Bridge, and Computer Science transfer to University (CSTU). These changes align with previous changes made to the core Networking and IT Security major.

2. Faculty of Engineering and Applied Science

a. Bachelor of Engineering – Minor Program Adjustment: Solid Mechanics Sequencing

CPRC approved the change of MANE 3120U from core to elective and the addition of MECE 3420U as a core course for Mechanical Engineering, Mechanical Engineering – Energy Specialization, Automotive Engineering, and their corresponding Management programs; and the removal of MECE 4210U from the list of Engineering Electives offered to Mechatronics Engineering students. CPRC also received for information corresponding course changes.

3. Faculty of Health Sciences

a. Bachelor of Health Sciences – Minor Program Adjustment: Kinesiology

CPRC approved the replacement of HLSC 2110U with HLSC 2480U in the Kinesiology Program maps. This new course has been created to specifically meet the curriculum needs of the Kinesiology program and will allow students to gain relevant foundational knowledge pertaining to exercise biochemistry.

4. Faculty of Science

a. Bachelor of Science – Minor Program Adjustment: Biological Science

CPRC approved the introduction of new required courses BIOL1000U and MATH1015U into the Biological Science programs. The new biology course provides the foundational knowledge and skills for success in the biological science program. The new math course will replace MATH1010U and MATH 1020U as a core requirement to provide more relevant MATH skills required by students. Additionally, CPRC approved the formal removal of the “Complementary Studies” moniker used to identify the major without Specialization and the removal of BIOL 3051U and BIOL 3080U from the unspecialized Biological Science major requirements, providing students with more flexibility in choosing courses in the 3rd and 4th years of the program.

b. Bachelor of Science – Minor Program Adjustment: Minor in Biological Science

CPRC approved updates to the current language in the academic calendar for the minor in Biology. The update will reflect the new institutional nomenclature and restrictions around double-counting courses, as well as remove the list of “suggested” groupings of BIOL courses in favour of a flexible model more in line with other Faculty of Science minors.

c. Bachelor of Science – Minor Program Adjustment: Minors in Chemistry and Physics

CPRC approved updates to the current language in the academic calendar for minors in Chemistry and Physics to reflect the new nomenclature and restrictions around double-counting courses.

d. Bachelor of Science – Minor Program Adjustment: Minor in Mathematics

CPRC approved changes to the Minor in Mathematics that will bring the requirements needed to obtain a minor in Mathematics more in line with other Faculty of Science minors, and provide more flexibility in the courses that students can apply towards their minor.

e. Bachelor of Science – Minor Program Adjustment: Double Major in Mathematics and Physics

CPRC approved updates to the existing double major in Mathematics & Physics, in order to better reflect the current program requirements in both the Applied and Industrial Mathematics and Physics – Comprehensive programs.