



TO: Committee on Academic Policy and Programs

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DATE: January 4, 2010 for January 12, 2010

AGENDA ITEM: 5

ITEM IDENTIFICATION: Faculty of Applied Science and Engineering: Major Calendar Changes 2010-11.

JURISDICTIONAL INFORMATION:

The Committee has authority for approval of changes to curriculum within established degree programs that can be accomplished with existing resources and are not major, as in specialist, major and minor programs.

PREVIOUS ACTION TAKEN:

On May 13, 2008, the Committee on Academic Policy and Programs approved a recommendation of the Faculty of Applied Science and Engineering to rename the “Options,” i.e., fields of specialization pursued by students in its Engineering Science program, as “Majors,” taking into account that this is the term generally used within Engineering programs in North America.

HIGHLIGHTS:

The Faculty of Applied Science and Engineering is proposing a new Major within the Engineering Science program for the calendar year 2010-11. The proposal for a Major in Engineering Mathematics, Statistics and Finance is outlined in the attached document, along with the associated academic rationale, program description and requirements, and learning outcomes.

Engineering Science is a unique program within the Faculty of Applied Science and Engineering that attracts some of the University of Toronto’s top ranking students and is a leader in engineering education on an international scale. By establishing this new Major in Engineering Mathematics, Statistics and Finance, the Faculty recognizes the increasing degree to which these areas converge and overlap in both research and industry. The proposal is aligned with the degree level expectations for the B.A.Sc. in Engineering Science degree¹ and complements the other Majors available to students in the Engineering Science program.

(Course descriptions for existing courses that are part of the programs can be found online at <http://www.undergrad.engineering.utoronto.ca/information/calendar/0910.htm>)

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¹ <http://www.provost.utoronto.ca/policy/academic/DLE.htm>

The proposal was reviewed by the Faculty's Curriculum Committee that includes representatives from each of the Faculty's undergraduate programs. It was approved by Faculty Council on November 25, 2009.

FINANCIAL AND/OR PLANNING IMPLICATIONS:

There are no new/additional University financial resources required to implement the addition of this Major and associated new courses. The Faculty has consulted with both the Rotman School of Management and the Departments within the Faculty of Arts and Science involved in offering courses as part of the proposed Major and discussions are continuing to ensure appropriate resource sharing. Engineering Science students select their Major prior to entering their third year. Therefore, the new Major will be available for the first time to the cohort of students currently in their second year who will be entering their third year in the fall of 2010.

RECOMMENDATION:

It is recommended that the Committee on Academic Policy and Programs approve:

The Faculty of Applied Science and Engineering calendar change, as described in the attached proposal, effective for the academic year 2010-11.