



GRADUATE STUDIES COMMITTEE

Report to Academic Council
at its meeting of September 21, 2010

For Action

1. Master of Engineering in Engineering Management and Diploma in Engineering Management

The Graduate Studies Committee recommends:

That Academic Council recommend to the Board of Governors the proposed Master of Engineering in Engineering Management (MEngM) and Diploma in Engineering Management, as set out in Appendix 1.

Rationale

The Faculty of Engineering and Applied Science (FEAS) and the Faculty of Energy Systems and Nuclear Science (FESNS) propose to jointly offer courses towards a Master of Engineering Management (MEngM) degree. The program will provide BEng graduates the opportunity to combine advanced engineering knowledge with managerial skills. Students will learn to successfully manage complex engineering projects, and prepare and implement business plans for engineering tasks. In addition to learning about the tools and techniques of engineering management, students will also gain a broader understanding of the issues facing all organizations and individuals in a fast paced engineering workplace. This program will give graduates a competitive advantage in the global marketplace and prepare them for management roles in both private and public sectors. Students who wish to pursue the Graduate Diploma in Engineering Management may take four courses offered within the Engineering Management program.

2. MASc/MEng in Mechanical Engineering: New Field in Engineering Design

The Graduate Studies Committee recommends:

That Academic Council approve the introduction of a new field of strength in Engineering Design to the MASc/MEng programs in Mechanical Engineering, as set out in Appendix 2.

Rationale

The Faculty of Engineering and Applied Science propose to offer a new field in Engineering Design to the MASc/MEng programs in Mechanical Engineering. The economic, ecological and social challenges facing the world now and in the future require rapid implementation of radically new approaches to the product realization process, in which design engineering plays a crucial role. This field will provide students with rigorous exposure to design engineering and its graduates will be instrumental in meeting emerging needs for innovative products, processes, technologies and services while establishing a strong relationship within and across the engineering disciplines. This field is unique to UOIT in that no other graduate program offers a field dedicated to Engineering Design. It will serve to advance the university's mission to provide career-oriented, innovative, forward-looking programs.