



TO: Committee on Academic Policy and Programs

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DATE: March 17, 2011 for April 5, 2011

AGENDA ITEM: **10**

ITEM IDENTIFICATION: Faculty of Applied Science and Engineering, Engineering Minor in Robotics and Mechatronics

JURISDICTIONAL INFORMATION:

The Committee on Academic Policy and Programs has the authority to approve changes to curriculum within existing degree programs that can be accomplished with existing resources.

PREVIOUS ACTION TAKEN: na

HIGHLIGHTS:

The proposed minor is one of a number of minors and certificates developed by the Faculty of Applied Science and Engineering that are intended to add breadth and depth to student programs of study.

This minor is a collaborative effort amongst the Edward S. Rogers Sr. Department of Electrical and Computer Engineering, the Department of Mechanical and Industrial Engineering, the University of Toronto Institute for Aerospace Studies, and the Institute of Biomaterials and Biomedical Engineering.

The minor requires students to complete six half courses (or the equivalent) from a list of eligible courses offered across the collaborating areas. Its goal is to give Engineering students an opportunity to learn more about fundamental enabling technologies. This will include an exploration of micro electromechanical systems and nanotechnology, advanced techniques for signal processing and systems control, as well as new system-level principles underlying embedded systems, which together render robotic and mechatronic systems viable as consumer products.

The minor was approved by the Faculty of Applied Science and Engineering Faculty Council on March 8, 2011.

FINANCIAL AND/OR PLANNING IMPLICATIONS: There are no new/additional financial resources at the University-level required to implement the proposed minor.

RECOMMENDATION:

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

THAT the proposed Minor Program in Robotics and Mechatronics be approved, effective July 1, 2011.