Master of Engineering (M.Eng.) Program in Automation Technologies and Systems

The Department of Mechanical & Materials Engineering (MME) at the University of Western Ontario offers a Master of Engineering (M.Eng.) program in Automation Technologies and Systems. This program is specially structured to assist qualified engineers in the advancement of their professional careers and to provide students with the skills necessary to address key technological challenges in the design, analysis and application of automation technologies and systems, primarily in manufacturing industries.

Students start this program on September 1st. Alternate start date requires the approval of the MME Associate Chair Graduate. If enrolled full-time, a student can complete the degree in one year.

For admission consideration to the M.Eng program, students must have a Bachelor's degree in Mechanical Engineering, or an equivalent degree from an accredited University with a minimum of 70% (B) grade average (North American), computed based on the last two years of a bachelor's honours degree marks, or on their previous graduate marks. In some cases, students with a similar degree from another scientific discipline may be admitted, with the approval of the MME Associate Chair Graduate. Please note that this is a very competitive program, meeting the minimum requirements for admission does not guarantee acceptance into the program.

The program is comprised of either 10 half courses, or 8 half courses plus a MEng Project (MME 9600) as follows:

A) 4 core half courses in Automated Technologies and Systems.

- MME 9521a Modern Control Systems
- MME 9601a Design and Manufacturing
- MME 9603a Solid Mechanics
- MME 9624a Actuator Principles: Integration and Control

B) 2 of the 4 core half courses in Professional Engineering (offered in Summer term);

- ES 9185L Risk Assessment & Management in Engineering Systems
- ES 9510L Engineering Planning & Project Mgmt
- ES 9501L Business & Mgmt: A Global Perspective
- ES 9510L Intellectual Property for Engineers
- ES 9670L Engineering Communication

C) Elective half courses, chosen from the list below, such that the total number of courses taken is 10 (if not enrolling in the MME 9600 MEng Project), or 8 with the MEng Project.

- MME 9510b Mechanical Vibrations
- MME 9526a Advanced CAE: Manufacturing Technologies
- MME 9527b Advanced CAE: Reverse Engineering
- MME 9520b Robotics and Manufacturing Automation
- MME 9621b Computational Methods in Engineering
- MME 9622b Advanced Kinematics and Dynamics
- MME 9640b Medical Device Design
- MME 9654b Applied Mechatronic Systems
- MME 9624b Actuator Principles: Integration and Control

Interested student may also be able to enroll in other 96xx and some 97xx-level courses offered by the MME Department with the approval of the course instructor and the MME Associate Chair Graduate. Please note that MEng students are allowed to take a maximum of 3 MME 95xx-level courses.

Courses may be chosen from Electrical and Computer Engineering, Chemical and Biochemical Engineering, Civil and Environmental Engineering, Applied Math, and Physics and Astronomy with the approval of the MME Associate Chair Graduate.

For more information, please visit our website: http://www.eng.uwo.ca/mechanical/graduate/professional_program/index.html or contact by phone (519-661-4122) or by e-mail (mmeprofessionalgrad@uwo.ca).

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