Master of Engineering (M.Eng.) Program in Mechanical Engineering

The Department of Mechanical & Materials Engineering (MME) at the University of Western Ontario offers a Master of Engineering (M.Eng.) program in Mechanical Engineering. 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 associated with the practice of Mechanical Engineering.

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) Minimum 2 of the 4 core half courses in Mechanical and Materials Engineering.

- MME 9601a Design and Manufacturing
- MME 9602a Engineering Materials
- MME 9603a Solid Mechanics
- MME 9604a Fluid Mechanics

B) 2 of the 5 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 9670L Engineering Communication
- ES 9501L Business & Mgmt: A Global Perspective

C) 6 elective half courses, or 4 elective half courses with the MEng Project (MME 9600).

- MME 9510b Mechanical Vibrations
- MME 9511b Biomechanics of the Musculoskeletal System
- MME 9514b Corrosion and Wear
- MME 9515a Fluid Machinery
- MME 9516a HVAC I
- MME 9517b HVAC II
- MME 9519b Production Management
- MME 9520b Robotics and Manufacturing Automation
- MME 9521a Systems and Control
- MME 9525a Fundamentals of MEMS
- MME 9526b Adv. CAE: Manufacturing Technologies
- MME 9527a Advanced CAE: Reverse Engineering
- MME 9611a Continuum Mechanics
- MME 9612L Finite Element Methods
- MME 9614a Applied Computational Fluid Mechanics & Heat Transfer
- MME 9615a Biomechanics of Human Joint Motion
- MME 9620b Nanomaterials & Nanotechnologies
- MME 9621b Computational Methods in Mechanical Eng’g
- MME 9622b Advanced Kinematics and Dynamics
- MME 9623b Theory and Practice of Plasticity
- MME 9639b Viscous and Boundary Layer Flow
- MME 9640b Medical Device Design
- MME 9641b Thermal Systems Engineering
- MME 9643b Composite Processing
- MME 9650a Dynamical Systems Modelling & Analysis
- MME 9651a Additive Manufacturing
- MME 9655a Impact Biomechanics

Interested student may also be able to enroll in 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.

For more information, please visit our website: [http://www.eng.uwo.ca/mechanical/graduate/professional_program/index.html](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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