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 7 core half courses in Professional Engineering.
   ELI 9110L  Risk Assessment & Management
   ELI 9200L  Engineering Planning & Project Mgmt
   ELI 9001L  Engineering Business
   ELI 9100L  Intellectual Property for Engineers
   ELI 9310L  New Venture Creation
   ELI 9600A/B  Engineering Communication
   ELI 9105L  Commercialization Innovation

C) 6 elective half courses, or 4 elective half courses with the MEng Project (MME 9600).
   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 9519L  Production Management
   MME 9520L  Robotics and Manufacturing Automation
   MME 9521a  Systems and Control
   MME 9527L  Advanced CAE: Reverse Engineering
   MME 9611a  Continuum Mechanics
   MME 9612L  Finite Element Methods
   MME 9613b  Advanced Finite Modeling
   MME 9614a  Applied Computational Fluid Mechanics & Heat Transfer
   MME 9617b  Energy Conversion
   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 9624a  Actuator Principles:, Integration and Control
   MME 9639b  Viscous and Boundary Layer Flow
   MME 9640b  Medical Device Design
   MME 9641b  Thermal Systems Engineering
   MME 9643b  Selected Topics: Composite Processing
   MME 9648b  Experimentation and Data Analysis
   MME 9651a  Additive Manufacturing
   MME 9655a  Impact Biomechanics
   MME 9656a  Dynamical Systems Modeling & Analysis
   MME 9658b  Micromechanics of Plasticity in Crystalline Solids
   MME 9657a  Advanced Kinematics for 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).