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

B) 2 of the 7 core half courses in Professional Engineering.
   - ELI 9110B/L Risk Assessment & Management
   - ELI 9200A/L Engineering Planning & Project Mgmt
   - ELI 9001A/L Engineering Business
   - ELI 9100B/L Intellectual Property for Engineers
   - ELI 9105A/L Commercialization Innovation
   - ELI 9106B/L New Venture Creation
   - ELI 9600L/A/B Engineering Communication
   - ELI 9601A/L Engineering Business

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 9519A Production Management
   - MME 9520B Robotics and Manufacturing Automation
   - MME 9521A Systems and Control
   - MME 9527A Advanced CAE: Reverse Engineering
   - MME 9511B Biomechanics of the Musculoskeletal System
   - MME 9622A Advanced Kinematics and Dynamics
   - MME 9623B Theory and Practice of Plasticity
   - MME 9639A Viscous and Boundary Layer Flow
   - MME 9640B Medical Device Design
   - MME 9643B Selected Topics: Composite Processing
   - MME 9648B Experimentation and Data Analysis
   - MME 9656A Dynamical Systems Modeling & Analysis
   - MME 9657A Advanced Kinematics for Biomechanics
   - MME 9658B Micromechanics of Plasticity in Crystalline Solids
   - MME 9659B Micromechanics of Plasticity in Crystalline Solids
   - MME 9661B Advanced Finite Modeling
   - MME 9673B Hydrodynamics Stability
   - MME 9674B Applied Computational Fluid Mechanics & Heat Transfer
   - MME 9713B Mechanism and Theory of Turbulent Flow
   - MME 9617B Energy Conversion
   - MME 9722B Energy Storage Systems
   - MME 9621A Computational Methods in Mechanical Eng’g
   - MME 9726B Advanced Nanomaterials
   - MME 96XXB Mechatronics Systems Engineering

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](mailto:mmeprofessionalgrad@uwo.ca)).

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