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.

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 an MEng Project as follows:

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

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

B) 2 of the 7 core half courses in Professional Engineering.

- ELI 9110 Risk Assessment & Management
- ELI 9200 Engineering Planning & Project Mgmt
- ELI 9001 Engineering Business
- ELI 9100 Intellectual Property for Engineers
- ELI 9310 New Venture Creation
- ELI 9600 Engineering Communication
- ELI 9105 Commercialization Innovation

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

- MME 9511 Biomechanics of the Musculoskeletal System
- MME 9514 Corrosion and Wear
- MME 9515 Fluid Machinery
- MME 9516 HVAC I
- MME 9517 HVAC II
- MME 9519 Production Management
- MME 9520 Robotics and Manufacturing Automation
- MME 9521 Systems and Control
- MME 9527 Advanced CAE: Reverse Engineering
- MME 9611 Continuum Mechanics
- MME 9612 Finite Element Methods
- MME 9613 Advanced Finite Modeling
- MME 9614 Applied Computational Fluid Mechanics & Heat Transfer
- MME 9615 Biomechanics of Human Joint Motion
- MME 9617 Energy Conversion
- MME 9620 Nanomaterials and Nanotechnology
- MME 9621 Computational Methods in Mechanical Eng’g
- MME 9622 Advanced Kinematics and Dynamics
- MME 9623 Theory and Practice of Plasticity
- MME 9624 Actuator Principles, Integration and Control
- MME 9639 Viscous and Boundary Layer Flow
- MME 9640 Medical Device Design
- MME 9641 Thermal Systems Engineering
- MME 9643 Selected Topics: Composite Processing
- MME 9648 Experimentation and Data Analysis
- MME 9651 Additive Manufacturing
- MME 9654 Mechatronic Systems Engineering
- MME 9656 Dynamical Systems Modeling & Analysis
- MME 9658 Micromechanics of Plasticity in Crystalline Solids
- MME 9711 Convection Heat Transfer
- MME 9722 Energy Storage Systems
- MME 9726 Advanced Nanomaterials

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).

Fall Course Offering    Winter Course Offering    Summer Course Offering

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