

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

A) 2 of the core half courses in Professional Engineering.

- ELI 9001 Engineering Business
- ELI 9100 Intellectual Property
- ELI 9105 Strategic Innovation & Commercialization
- ELI 9110 Risk Assessment & Management
- ELI 9200 Planning & Project Management
- ELI 9300 Design Driven Innovation
- ELI 9310 New Venture Creation
- ELI 9400 Engineering Leadership
- ELI 9600 Engineering Communications
- ELI 9700 Transformational Leadership

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

MME 9511	Biomechanics of the Musculoskeletal System	MME 9621	Computational Methods in Engineering
MME 9514	Corrosion and Wear	MME 9622	Advanced Dynamics and Kinematics
MME 9515	Fluid Machinery	MME 9624	Actuator Principals, Integration and Control
MME 9516	HVAC I	MME 9639	Viscous and Boundary Layer Flow
MME 9517	HVAC II	MME 9640	Medical Device Design
MME 9526	Advanced CAE: Manufacturing Tech	MME 9643	Selected topics: Composite Processing
MME 9527	Advanced CAE: Reverse Engineering	MME 9651	Additive Manufacturing
MME 9611	Continuum Mechanics	MME 9653	Machine Learning in Engineering Applications
MME 9612	Finite Element Methods	MME 9655	Impact Biomechanics
MME 9614	Appl. Computational Fluid Mech & Heat Trans		
MME 9615	Biomechanics of Human Joint Motion	MME 9722*	Energy Storage Systems
MME 9617	Renewable Energy	MME 9729*	Optomechatronic Sys: Techniques and Apps

*Interested students 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

Fall Course Offering **Winter Course Offering** **Summer Course Offering**