



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 9603a	Solid Mechanics
MME 9602a	Engineering Materials	MME 9604a	Fluid Mechanics

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

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

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

MME 9511b	Biomechanics of the Musculoskeletal System	MME 9621b	Computational Methods in Mechanical Eng'g
MME 9514b	Corrosion and Wear	MME 9622b	Advanced Kinematics and Dynamics
MME 9515a	Fluid Machinery	MME 9623b	Theory and Practice of Plasticity
MME 9516a	HVAC I	MME 9624a	Actuator Principles:, Integration and Control
MME 9517b	HVAC II	MME 9639b	Viscous and Boundary Layer Flow
MME 9519L	Production Management	MME 9640b	Medical Device Design
MME 9520L	Robotics and Manufacturing Automation	MME 9641b	Thermal Systems Engineering
MME 9521a	Systems and Control	MME 9643b	Selected Topics: Composite Processing
MME 9527L	Advanced CAE: Reverse Engineering	MME 9648b	Experimentation and Data Analysis
MME 9611a	Continuum Mechanics	MME 9651a	Additive Manufacturing
MME 9612L	Finite Element Methods	MME 9655a	Impact Biomechanics
MME 9613b	Advanced Finite Modeling	MME 9656a	Dynamical Systems Modeling & Analysis
MME 9614a	Applied Computational Fluid Mechanics & Heat Transfer	MME 9658b	Micromechanics of Plasticity in Crystalline Solids
MME 9617b	Energy Conversion	MME 9657a	Advanced Kinematics for Biomechanics
MME 9620b	Nanomaterials & Nanotechnologies		

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 or contact by phone (519-661-4122) or by e-mail (mmeprofessionalgrad@uwo.ca).