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 9603a Solid Mechanics
MME 9604a Fluid Mechanics

B) 2 of the 5 core half courses in Professional Engineering (offered in Summer term).

ES 9185L Risk Assessment & Management in Engineering Systems
ES 9510L Engineering Planning & Project Mgmt
ES 9515L Business & Mgmt: A Global Perspective
ES 9910L Intellectual Property for Engineers
ES 9910L Engineering Communication
ES 9915L Commercialization Innovation

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

MME 9510a Mechanical Vibrations
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 9520b Robotics and Manufacturing Automation
MME 9521L Systems and Control
MME 9525a Fundamentals of MEMS
MME 9527a Advanced CAE: Reverse Engineering
MME 9511a Continuum Mechanics
MME 9512L Finite Element Methods
MME 9513b Advanced Finite Modeling
MME 9514a Applied Computational Fluid Mechanics & Heat Transfer
MME 9615b Biomechanics of Human Joint Motion
MME 9617b Energy Conversion
MME 9619b Fundamentals of MEMS and NEMS
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 Composite Processing
MME 950b Selected Topics: Biotribology
MME 9651a Additive Manufacturing
MME 9656a Dynamical Systems Modeling & Analysis

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).

REVISED: December 11, 2020