

ME Courses and Options



Mechanical & Industrial Engineering
UNIVERSITY OF TORONTO

FACULTY
OF APPLIED
SCIENCE &
ENGINEERING

Presenters

- **Professor Chi-Guhn Lee**
 - *Undergraduate Coordinator of MIE*
- **Professor Hani Naguib**
 - *Solid Mechanics & Design*
- **Professor David Steinman**
 - *Bioengineering*
- **Professor Aimy Bazylak**
 - *Energy & Environment*
- **Professor Matthew Mackay**
 - *Mechatronics*
- **Professor Michael Munro**
 - *Manufacturing & Capstone*



Third Year (ME): Fall

- Core
 - MIE301F Kinematics & Dynamics of Machines
 - MIE312F Fluid Mechanics I
 - MIE334F Numerical Methods I
 - MIE342F Circuits with Applications to Mechanical Engineering Sys
 - MIE397Y Design Portfolio
- Natural Science Elective (1)
 - CHE353F Engineering Biology
 - CIV220F Urban Engineering Ecology
 - CIV300F/S Terrestrial Energy Systems

Third Year (ME): Winter

- Core
 - MIE315S Design for the Environment
 - MIE333S Engineering Physics
 - MIE341S Mechanical Engineering Design
 - MIE397Y Design Portfolio
- Stream Options (2 streams)
 - MIE364S Quality Control & Improvement (Manufacturing)
 - MIE346S Analog & Digital Electronics for Mechatronics (Mechatronics)
 - MIE320S Mechanics of Solid II (Solid Mech & Design)
 - MIE313S Heat & Mass Transfer (Energy & Environment)
 - CHE354S Cellular and Molecular Biology (Bioengineering)
 - MIE331S Physiological Control Systems (Bioengineering)

* : In 4F, students will have to take one additional course from each of the same streams followed in 3rd year.

Fourth Year (ME): Fall

- Core
 - MIE491Y Capstone
- Stream Courses (2)
 - MIE422F* (Manufacturing)
 - MIE404F (Mechatronics)
 - MIE442F (Solid Mech & Design)
 - MIE411F (Energy & Environ)
 - MIE520F (Bioengineering)
- CS Elective (1)
- Tech Electives (1)
 - AER307F
 - AER525F*
 - ECE344F
 - MIE343F
 - MIE360F
 - MIE414F
 - MIE422F
 - MIE440F
 - MIE444F
 - MIE448F
 - Thesis (F/Y)
 - MIE515F
 - MIE516F
 - MSE330F
 - MSE401F

* : Students may take only one of MIE422 and AER525; AER525 has limited enrolment.

Fourth Year (ME): Spring

- Core
 - MIE491Y Capstone
- Tech Electives (3)
 - CIV440S
 - CHE475S
 - ECE344S
 - FOR424S
 - MIE402S
 - MIE407S
 - MIE408S
 - MIE418S
 - MIE438S
 - MIE439S
 - MIE441S
 - MIE443S
 - MIE464S
 - MIE469S
 - Thesis (S/Y)
 - MIE506S
 - MIE517S
 - MIE540S
 - MIE442S
- CS Elective (1)