Western Engineering

Mechanical Engineering

September 2018 (students who entered first year in September 2016 or September 2017)

Year 2:

Term A

AM 2270a	Applied Mathematics for Engineering II
MME 2202a	Mechanics of Materials
MME 2204a	Thermodynamics I
MME 2259a	Product Design and Development
MME 2260a	Industrial Materials
MME 2200Q	Engineering Shop Safety Training
Writing 2130F	Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers

Term B

AM 2276b	Applied Mathematics for Elec. & Mech Eng. III
MME 2213b	Engineering Dynamics
MME 2273b	Introduction to Fluid Mechanics and Heat Transfer
MME 2285b	Engineering Experimentation
SS 2143b	Applied Statistics and Data Analysis for Engineers
ECE 2274b	Electric Circuits and Electromechanics

Year 3:

Term A

AM 3413a	Applied Mathematics
MME 3303a	Fluid Mechanics II
MME 3379a	Materials Selection
MME 3381a	Kinematics and Dynamics of Machines
ECE 3374a	Introduction to Electronics for Mechanical Engineering

Term B

MME 3307b	Heat Transfer II
MME 3334b	Thermodynamics II
MME 3350b	System Modelling and Control
MME 3360b	Finite Element Methods in Mechanical Engineering
MME 3380b	Mechanical Components Design

Year 4:

Term A

MME 4499 Mechanical Engineering Design Project
1.0 non-technical electives taken from the approved list
Two 0.5 technical electives

Term B

MME 4499 Mechanical Engineering Design Project
ES 4498G Engineering Ethics, Sustainable Development and the Law
0.5 non-technical elective taken from the approved list
Three 0.5 technical electives

NOTES:

Non-technical electives:
Please choose 1.0 credits (one 1.0 credit or two 0.5 credit) courses from the 1000 level and one 0.5 credit from the 2000 (or higher) level.

Technical electives:
Students may elect to substitute technical electives from other engineering disciplines or from the Faculty of Science, provided they have the required prerequisites, and provided at least half of their technical electives are chosen from the above list. A maximum of two 0.5 courses may be taken from the Faculty of Science and used towards the BESc degree. All courses outside of the MME list must be approved by the Department of Mechanical and Materials Engineering.

Technical Elective List:

Some technical electives may not be offered in a given academic year. Consult the department for accurate listing.

MME 4410	Mechanical and Materials Engineering Thesis
MME 4423a/b	Internal Combustion Engines
MME 4424a/b	Mechanical Properties of Materials
MME 4425a/b	Mechanical Vibrations
MME 4427a/b	Selected Topics in Mechanical Engineering III
MME 4428a/b	Selected Topics in Mechanical Engineering IV
MME 4429a/b	Nuclear Engineering
MME 4435a/b	Pressure Vessel Design
MME 4437a/b	Advanced CAE: Simulation
MME 4446a/b	Composite Materials
MME 4450a/b	Control Systems: Theory & Practice
MME 4452a/b	Robotics and Manufacturing Automation
MME 4453a/b	Corrosion and Wear
MME 4459a/b	Advanced CAE: Manufacturing Technologies
MME 4460a/b	HVAC II
MME 4469a/b	Biomechanics of the Musculoskeletal System
MME 4470a/b	Medical and Assistive Devices
MME 4473a/b	Computer Integrated Manufacturing (CIM)
MME 4474a/b	Selected Topics in Mechanical Engineering I
MME 4475a/b	Selected Topics in Mechanical Engineering II
MME 4480a/b	Advanced CAE: Reverse Engineering
MME 4482a/b	Fundamentals of MEMS
MME 4483a/b	HVAC I
MME 4485a/b	Fluid Machinery
MME 4487a/b	Mechatronic System Design
MME 4490a/b	Engineering in a Global Context: Advanced Manufacturing **Course with an International Component: see MME office for details.*
MME 4492a/b	Production Management for Engineers