

Mechatronic Systems Engineering and Business (Option B)

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

Year 2:

Term A

AM 2270A	Applied Mathematics for Engineering II
ECE 2205A	Electric Circuits I
MSE 2200Q	Engineering Shop Safety Training
MSE 2201A	Introduction to Electrical Instrumentation
MSE 2212A	Mechanics of Materials
MSE 2214A	Thermodynamics
CS 1037A	Computer Science Fundamentals II
BUS 2257	Accounting & Business Analysis

Term B

AM 2276B	Applied Mathematics for Elec & Mech Eng III
MSE 2202B	Introduction to Mechatronic Design
MSE 2213B	Engineering Dynamics
MSE 2233B	Circuits and Systems
MSE 2273B	Introduction to Heat Transfer and Fluid Mechanics
BUS 2257	Accounting & Business Analysis

Year 3: HBA1

Year 4:

Term A

AM 3415A	Applied Math for Electrical Engineering
ECE 2277A	Digital Logic Systems
ECE 3330A	Control Systems
MSE 3301A	Materials Selection and Manufacturing Processes
MSE 3310A	Electric Motors and Drives
MSE 3381A	Kinematics and Dynamics of Machines
BUS 4569	Ivey Field Project

Term B

ECE 3331B	Signal Processing
ECE 3375B	Microprocessors and Microcomputers
MSE 3302B	Sensors and Actuators
MSE 3360B	Finite Element Methods for Mechatronic Systems Engineering
MSE 3380B	Machine Component Design for Mechatronic Systems
BUS 4569	Ivey Field Project

Year 5:

Term A

MSE 4401A	Robotic Manipulators
MSE 4499	Mechatronic Design Project
STATS 2141A	Applied Probability and Statistics for Engineers
BUS 4505a	Global Macroeconomics for Managers
One 0.5 technical elective	
BUS 4521A/B or 4522A/B or 4532A/B	

Term B

MSE 4499	Mechatronic Design Project
ES 4498G	Engineering Ethics, Sustainable Development and the Law
One 0.5 technical elective	
2.0 Business electives chosen from the 4000 level Business courses	

Technical Elective List:

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

ECE 4455A/B	Biomedical Systems Analysis
ECE 4460A/B	Real-Time and Embedded Systems
ECE 4469A/B	Applied Control Systems