

Mechatronics Engineering and Business (Option B)

September 2019 (for students who entered first year <u>prior to</u> September 2016)

Year 2 Term A

AM 2270A Applied Mathematics for Engineering II

ECE 2205A Electric Circuits I

MME 2200Q Engineering Shop Safety Training

MSE 2201A Introduction to Electrical Instrumentation

MME 2202A Mechanics of Materials MME 2204A Thermodynamics I

CS 1037A Computer Science Fundamentals II BUS 2257 Accounting & Business Analysis

Term B

AM 2276B Applied Math for Electrical & Mechanical Eng. III

MSE 2202B Introduction to Mechatronic Design

MME 2213B Engineering Dynamics MSE 2233B Circuits and Systems

SS 2143B Applied Statistics and Data Analysis for Engineers

BUS 2257 Accounting & Business Analysis

Year 3: HBA 1

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

ECE 3332A Electric Machines

MME 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

MME 3360B Finite Element Methods for Mechanical 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

BUS 4505A Global Macroeconomics for Managers
BUS 4521A, Corporations and Society course requirement

4522A, 4532A

One 0.5-credit technical elective

Term B

MSE 4499 Mechatronic Design Project

ES 4498G Engineering Ethics, Sustainable Development & the

Law

One 0.5-credit technical elective

2.0 credits of Business electives chosen from 4000 level Business courses

NOTES:

Technical Electives

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

ECE 4457A/B	Power Electronics
ECE 4460A/B	Real-time and Embedded Systems
ECE 4469A/B	Applied Control Systems