# Mechatronics Engineering and Business (Option B)

**September 2019** *(for students who entered first year in September 2017 or later)*

## 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 Math for Electrical & Mechanical 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: 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
- 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 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
- SS 2141A Applied Probability and Statistics for Engineers
- ES 4498F Engineering Ethics, Sustainable Development & the Law

1.5 HBA required courses**

**Term B**
- MSE 4499 Mechatronic Design Project
- One 0.5-credit technical elective

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**NOTES:**

**1.5 HBA required courses:**
- International Perspective Requirement: Business 4505A/B.
- Corporations and Society Requirement: at least 0.5-credit from Business Administration – Corporations and Society designated electives offered during the academic year or other business elective as determined and approved by the HBA Program Director to satisfy this requirement.
- Managerial Accounting Requirement: Business 4624A/B

**Technical Electives**

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

<table>
<thead>
<tr>
<th>ECE 4455A/B</th>
<th>Biomedical Systems Analysis</th>
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<tbody>
<tr>
<td>ECE 4460A/B</td>
<td>Real-time and Embedded Systems</td>
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<tr>
<td>ECE 4469A/B</td>
<td>Applied Control Systems</td>
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*The official version of the academic calendar can be found at: [www.westerncalendar.uwo.ca](http://www.westerncalendar.uwo.ca)*