# Mechatronics Engineering and Business (Option B)

**September 2022 (for students who entered first year in September 2019)**

## 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
- **NMM 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

## Year 5

### Term A
- **MSE 4401A**: Robotic Manipulators
- **MSE 4499**: Mechatronic Design Project
- **SS 2141A**: Applied Probability and Statistics for Engineers
- **ELI 4110F**: Engineering Ethics, Sustainable Development & the Law
- **1.5 HBA required courses**

### Term B
- **MSE 4499**: Mechatronic Design Project
- Two 0.5-credit technical elective
- Three 0.5 Business courses at the 4000 level

## NOTES:

**1.5 HBA required courses:**
- International Perspective Requirement: Business 4505A/B.
- Corporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year 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>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECE 4455A/B</td>
<td>Biomedical Systems Analysis</td>
</tr>
<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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</tbody>
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The official version of the academic calendar can be found at: [www.westerncalendar.uwo.ca](http://www.westerncalendar.uwo.ca)