

Mechatronics Engineering and Business (Option B)

September 2023 (for students who entered first year in September 2018 or later)

<p>Year 2</p> <p>Term A</p> <p>NMM 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</p> <p>Term B</p> <p>NMM 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</p> <p>Year 3: HBA 1</p> <p>Year 4</p> <p>Term A</p> <p>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</p> <p>Term B</p> <p>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 Mechatronics Systems</p> <p>Year 5</p> <p>Term A</p> <p>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</p> <p>1.5 HBA required courses**</p> <p>Term B</p> <p>MSE 4499 Mechatronic Design Project Two 0.5-credit technical elective Three 0.5 Business courses at the 4000 level</p>	<p>NOTES:</p> <p>**1.5 HBA required courses:</p> <ul style="list-style-type: none"> 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 <p>Technical Electives Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.</p> <table border="1" style="width: 100%;"> <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> </tr> <tr> <td>ECE 4469A/B</td> <td>Applied Control Systems</td> </tr> </table>	ECE 4455A/B	Biomedical Systems Analysis	ECE 4460A/B	Real-time and Embedded Systems	ECE 4469A/B	Applied Control Systems
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