

Electrical Engineering and Business (Option B)

September 2026 (for students who entered first year in September 2025 or later)

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| <p>Year 2</p> <p>Term A</p> <p>NMM 2270A Applied Mathematics for Engineering II CS 1027A Computer Science Fundamentals II ECE 2205A Electric Circuits I ECE 2240A Electrical Laboratory ECE 2277A Digital Logic Systems BUS 2257 Accounting & Business Analysis</p> <p>Term B</p> <p>NMM 2276B Applied Mathematics for Elec. & Mech. Engineering III ECE 2231B Introduction to Electronics ECE 2233B Circuits and Systems ECE 2236B Magnetic Circuits and Transmission Lines ECE 2242B Principles of Design in Electrical Engineering BUS 2257 Accounting & Business Analysis</p> <p>Year 3: HBA 1</p> <p>Year 4</p> <p>Term A</p> <p>NMM 3415A Applied Mathematics for Electrical Engineering II ECE 3330A Control Systems ECE 3332A Electric Machines ECE 3337A Electronic Circuits SS 2141A Applied Statistics and Data Analysis BUS 4569 Ivey Field Project</p> <p>Term B</p> <p>ECE 3331B Introduction to Signal Processing ECE 3336B Electromagnetic Theory ECE 3333B Electric Power Systems ECE 3375B Microprocessors and Microcomputers ECE 3399B Principles and Practices of Design of Electronic Systems</p> <p>Year 5</p> <p>Term A</p> <p>ECE 4416 Electrical/Computer Engineering Project ECE 4429A Advanced Digital Signal Processing ECE 4437A Communications Theory One 0.5-credit technical elective 1.5 HBA required courses**</p> <p>Term B</p> <p>ECE 4416 Electrical/Computer Engineering Project ELI 4110G Engineering Ethics, Sustainable Development & the Law Three 0.5-credit Business electives from 4000 level Business courses</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"> <tr><td>ECE 3349A/B</td><td>Introduction of VLSI</td></tr> <tr><td>ECE 3370B</td><td>Communication Electronics I</td></tr> <tr><td>ECE 4430A/B</td><td>Selected Topics in Electrical Engineering I</td></tr> <tr><td>ECE 4431A/B</td><td>Selected Topics in Electrical Engineering II</td></tr> <tr><td>ECE 4432A/B</td><td>Radiation and Propagation</td></tr> <tr><td>ECE 4433A/B</td><td>Digital Communications Systems</td></tr> <tr><td>ECE 4436A/B</td><td>Networking: Principles, Protocols & Architecture</td></tr> <tr><td>ECE 4438A/B</td><td>Advanced Image Processing & Analysis</td></tr> <tr><td>ECE 4439A/B</td><td>Conventional, Renewable & Nuclear Energy</td></tr> <tr><td>ECE 4445A/B</td><td>Introduction to Digital Image Processing</td></tr> <tr><td>ECE 4451A/B</td><td>Advanced Topics in Wireless Communications</td></tr> <tr><td>ECE 4455A/B</td><td>Biomedical Systems Analysis</td></tr> <tr><td>ECE 4456A/B</td><td>Power Systems Protection</td></tr> <tr><td>ECE 4457A/B</td><td>Power Electronics</td></tr> <tr><td>ECE 4460A/B</td><td>Real-Time and Embedded Systems</td></tr> <tr><td>ECE 4464A/B</td><td>Electric Power Systems II</td></tr> <tr><td>ECE 4468A/B</td><td>Systems Optimization</td></tr> <tr><td>ECE 4469A/B</td><td>Applied Control Systems</td></tr> <tr><td>MME 4452A/B</td><td>Robotics and Manufacturing Automation</td></tr> <tr><td>MME 4473A/B</td><td>Computer Integrated Manufacturing</td></tr> <tr><td>MME 4482A/B</td><td>Fundamentals of MEMS</td></tr> <tr><td>MME 4487A/B</td><td>Mechatronic System Design</td></tr> </table> | ECE 3349A/B | Introduction of VLSI | ECE 3370B | Communication Electronics I | ECE 4430A/B | Selected Topics in Electrical Engineering I | ECE 4431A/B | Selected Topics in Electrical Engineering II | ECE 4432A/B | Radiation and Propagation | ECE 4433A/B | Digital Communications Systems | ECE 4436A/B | Networking: Principles, Protocols & Architecture | ECE 4438A/B | Advanced Image Processing & Analysis | ECE 4439A/B | Conventional, Renewable & Nuclear Energy | ECE 4445A/B | Introduction to Digital Image Processing | ECE 4451A/B | Advanced Topics in Wireless Communications | ECE 4455A/B | Biomedical Systems Analysis | ECE 4456A/B | Power Systems Protection | ECE 4457A/B | Power Electronics | ECE 4460A/B | Real-Time and Embedded Systems | ECE 4464A/B | Electric Power Systems II | ECE 4468A/B | Systems Optimization | ECE 4469A/B | Applied Control Systems | MME 4452A/B | Robotics and Manufacturing Automation | MME 4473A/B | Computer Integrated Manufacturing | MME 4482A/B | Fundamentals of MEMS | MME 4487A/B | Mechatronic System Design |
| ECE 3349A/B | Introduction of VLSI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 3370B | Communication Electronics I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4430A/B | Selected Topics in Electrical Engineering I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4431A/B | Selected Topics in Electrical Engineering II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4432A/B | Radiation and Propagation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4433A/B | Digital Communications Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4436A/B | Networking: Principles, Protocols & Architecture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4438A/B | Advanced Image Processing & Analysis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4439A/B | Conventional, Renewable & Nuclear Energy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4445A/B | Introduction to Digital Image Processing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4451A/B | Advanced Topics in Wireless Communications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4455A/B | Biomedical Systems Analysis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4456A/B | Power Systems Protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4457A/B | Power Electronics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4460A/B | Real-Time and Embedded Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4464A/B | Electric Power Systems II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4468A/B | Systems Optimization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECE 4469A/B | Applied Control Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MME 4452A/B | Robotics and Manufacturing Automation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MME 4473A/B | Computer Integrated Manufacturing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MME 4482A/B | Fundamentals of MEMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MME 4487A/B | Mechatronic System Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |