Electrical Engineering and Business (Option B)

September 2020 *(for students who entered first year in September 2017)*

Year 2
Term A

AM 2270A	Applied Mathematics for Engineering II
CS 1037A	Computer Science Fundamentals II
ECE 2205A	Electric Circuits I
ECE 2240A	Electrical Laboratory
ECE 2277A	Digital Logic Systems
BUS 2257	Accounting & Business Analysis

Term B

AM 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

Year 3: HBA 1

Year 4
Term A

AM 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

Term B

ECE 3331B	Introduction to Signal Processing
ECE 3336B	Electromagnetic Theory
ECE 3370B	Communication Electronics I
ECE 3375B	Microprocessors and Microcomputers
ECE 3399B	Principles and Practices of Design of Electronic Systems

Year 5
Term A

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**	

Term B

ECE 4416	Electrical/Computer Engineering Project
ES 4498G	Engineering Ethics, Sustainable Development & the Law
Three 0.5-credit Business electives from 4000 level Business courses	

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.

ECE 3349A/B	Introduction of VLSI
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
SE 4460 A/B	Machine Learning & Design