

## **Electrical Engineering and Business (Option B)**

September 2025 (for students who entered first year in September 2018 or later)

# Year 2

## Term A

NMM 2270A Applied Mathematics for Engineering II
CS 1027A Computer Science Fundamentals II
ECE 2205A Electric Circuits I

ECE 2205A Electric Circuits I
ECE 2240A Electrical Laboratory
ECE 2277A Digital Logic Systems

BUS 2257 Accounting & Business Analysis

## Term B

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

#### Year 3: HBA 1

#### Year 4

### Term A

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

#### 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

ELI 4110G 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