Electrical Engineering (Option A)
September 2020 (for students who entered first year in September 2019)

Year 2
Term A
- AM 2270A  Applied Mathematics for Engineering II
- CS 1027A  Computer Science Fundamentals II
- ECE 2205A  Electric Circuits I
- ECE 2277A  Digital Logic Systems
- ECE 2240A  Electrical Laboratory
- Writ 2130F  Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers

Term B
- 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
- MME 2234B  Heat Transfer and Dynamics

Year 3
Term A
- AM 3415A  Applied Math for Electrical Engineering
- ECE 3330A  Control Systems
- ECE 3332A  Electric Machines
- ECE 3337A  Electronic Circuits
- SS 2141A  Applied Probability and Statistics for Engineers
- One 0.5-credit non-technical elective from approved list (either term)

Term B
- ECE 3331B  Introduction to Signal Processing
- ECE 3333B  Electric Power Systems I
- 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 4
Term A
- ECE 4416  Electrical/Computer Engineering Project
- ECE 4429A  Advanced Digital Signal Processing
- ECE 4437A  Communications Theory
- One 0.5-credit non-technical elective from approved list
- Two 0.5-credit technical electives

Term B
- ECE 4416  Electrical/Computer Engineering Project
- ES 4498G  Engineering Ethics, Sustainable Development & the Law
- One 0.5-credit non-technical elective from approved list
- Three 0.5-credit technical electives

NOTES:

Non-technical electives:
Please choose 1.0 credits (one 1.0-credit or two 0.5-credit courses) from the 1000 level and one 0.5-credit course from the 2000 (or higher) level.

Technical Electives
Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.

- ECE 3349A/B  Introduction to VLSI
- ECE 3380A/B  Advanced Digital Systems
- 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 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 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 4460A/B  Machine Learning & Design

The official version of the academic calendar can be found at: www.westerncalendar.uwo.ca