## Integrated Engineering
### September 2022 (students who entered first year in September 2020)

### Year 2:
#### Term A
- AM 2270a Applied Mathematics for Engineering II
- CEE 2220a Introduction to Structural Theory
- ECE 2277a Digital Logic Systems
- MSE 2214a Thermodynamics I
- IE 2297a Integrated System Engineering & Design

- One 0.5 non-technical elective

#### Term B
- AM 2276b Applied Mathematics for Electrical and Mechanical Engineering III
- CBE 2221b Fluid Flow
- CBE 2291b Computational Methods for Engineers
- ECE 2238b Introduction to Electrical Engineering
- SS 2143b Applied Statistics and Data Analysis for Engineers

- One 0.5 non-technical elective

### Year 3:
#### Term A
- ELI 3000a Managing the Innovation Process
- CBE 2220a Chemical Process Calculations
- CBE 3322a Heat Transfer Operations
- CEE 2202a Mechanics of Materials
- ECE 3374a Introduction to Electronics for Mechanical Engineering
- MSE 3301a Materials Selection & Manufacturing Processes

#### Term B
- ELI 3200b New Venture Creation
- CEE 2221b Structural Theory and Design II
- MME 2285b Engineering Experimentation
- MSE 3360b Finite Element Methods in Mechanical Engineering
- ELI 4110g Engineering Ethics, Sustainable Development and the Law

### Year 4:
#### Term A
- IE 4499 Interdisciplinary Engineering Design Project
- ELI 4100a Engineering Leadership

- Three 0.5 technical electives

#### Term B
- IE 4499 Interdisciplinary Engineering Design Project
- ELI 4200b The Entrepreneurial Environment

- Three 0.5 technical electives

### NOTES:
#### Non-technical Electives:
For a list of approved non-technical electives, please visit: http://www.eng.uwo.ca/undergraduate/upper_year/electives.html

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

### Chemical and Biochemical Engineering:
- CBE 2290a/b Fundamentals of Biochemical and Environmental Engineering
- CBE 3310a/b Process Dynamics and Control
- CBE 3324a/b Mass Transfer Operations
- CBE 4409a/b Wastewater Treatment
- CBE 4421a/b Introduction to Biomaterials Engineering

### Civil and Environmental Engineering:
- CEE 3348a/b Project Management and Engineering Cases
- CEE 3362a/b Drinking Water Quality and Treatment
- CEE 4405a/b Air Pollution
- CEE 4418a/b Systems Approach for Civil and Environmental Engineering
- CEE 4458a/b Risk Analysis and Decision Making in Engineering
- CEE 4465a/b Environmental Design for Waste Disposal
- CEE 4477a/b Environmental Applications of Nanotechnology

### Electrical and Computer Engineering:
- ECE 3349a/b Introduction of VLSI
- ECE 3375a/b Microprocessors and Microcomputers
- ECE 4436a/b Networking: Principles, Protocols, and Architecture
- ECE 4468a/b Systems Optimization
- SE 3314a/b Computer Networks Applications

### Integrated Engineering
- IE 4490a/b Integrated Engineering Undergraduate Research
- IE 4491a/b Integrated Engineering Undergraduate Research

### Mechanical and Materials Engineering:
- MME 3381a/b Kinematics and Dynamics of Machines
- MME 4452a/b Robotics and Manufacturing Automation
- MME 4473a/b Computer Integrated Manufacturing (CIM)
- MME 4487a/b Mechatronic System Design
- MME 4492a/b Production Management for Engineers

The technical electives listed here are recommended technical electives from each department. Other courses may be taken if prerequisite requirements are satisfied.