

Integrated Engineering

September 2021 (students who entered *first year* in September 2019)

Year 2:

Term A

- NMM 2270a Applied Mathematics for Engineering II (Formerly AM 2270a)
- CEE 2220a Introduction to Structural Theory
- ECE 2277a Digital Logic Systems
- MSE 2214a Thermodynamics I
- ES 2297a Integrated System Engineering & Design
- One 0.5 non-technical elective

Term B

- NMM 2276b Applied Mathematics for Electrical and Mechanical Engineering III (Formerly AM 2276b)
- 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
- MSE 2213b Engineering Dynamics
- 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

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

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
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