Integrated Engineering
September 2020 (students who entered *first year* in September 2018)

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
MME 2259a	Product Design and Development

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

ES 3330a	Engineering Innovation I: Strategy and Business Economics
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

ES 3331b	Engineering Innovation II: Marketing and Design Thinking
CEE 2221b	Structural Theory and Design II
MSE 2213b	Engineering Dynamics
MME 2285b	Engineering Experimentation
MSE 3360b	Finite Element Methods in Mechanical Engineering
ES 4498G	Engineering Ethics, Sustainable Development and the Law

Year 4:
Term A

ES 4499	Interdisciplinary Engineering Design Project
ES 4480a	Engineering Innovation III: Engineering Leadership

Three 0.5 technical electives

Term B

ES 4499	Interdisciplinary Engineering Design Project
ES 4481b	Engineering Innovation IV: New Venture Creation

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