

# **Integrated Engineering**

# **September 2020** (students who entered *first year* in September 2016 or 2017)

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## Term A

AM 2270a Applied Mathematics for Engineering II

Mechanics of Materials CEE 2202a ECE 2277a **Digital Logic Systems** Thermodynamics I MSE 2214a

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

**Computational Methods for Engineers** CBE 2291b ECE 2238b Introduction to Electrical Engineering

Applied Statistics and Data Analysis for Engineers SS 2143b

One 0.5 Non-technical elective

#### Year 3:

## Term A

ES 3331a Engineering Innovation II: Managing the Innovation Process

CBE 2220a **Chemical Process Calculations** CBE 3322a **Heat Transfer Operations** CEE 2220a Structural Theory and Design I

ECE 3374a Introduction to Electronics for Mechanical Engineering

MSE 3301a Materials Selection & Manufacturing Processes

## Term B

ES 3330b Engineering Innovation I: 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 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: 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 Electives List:**

Some technical electives may not be offered in a given academic year. Consult the Academic Timetable for a current listing.

Chemical and Bi	ochemical Engineering :		
CBE 2290a/b	Fundamentals of Biochemical and		
	Environmental Engineering		
CBE 3310a/b Process Dynamics and Control			
CBE 3324a/b	E 3324a/b Mass Transfer Operations		
CBE 4409a/b Wastewater Treatment			
CBE 4421a/b	Introduction to Biomaterials Engineering		
Civil and Environ	mental Engineering:		
CEE 2240 - /h	Project Management and Engineering		
CEE 3348a/b	Cases		
CEE 3362a/b	Drinking Water Quality and Treatment		
CEE 4405a/b	Air Pollution		
CEE 4410a/b	Systems Approach for Civil and		
CEE 4418a/b	Environmental Engineering		
CEE 44E92/b	Risk Analysis and Decision Making in		
CEE 4458a/b	Engineering		
CEE 4465a/b	Environmental Design for Waste Disposa		
CEE 4477a/b	Environmental Applications of		
CLL 4477a/b	Nanotechnology		
<b>Electrical and Co</b>	mputer Engineering:		
ECE 3349a/b	Introduction of VLSI		
ECE 3375a/b	3375a/b Microprocessors and Microcomputers		
ECE 4436a/b	Networking: Principles, Protocols, and		
LCL 4430a/b	Architecture		
ECE 4468a/b			
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 (CIN		
MME 4487a/b Mechatronic System Design			
MME 4492a/b	Production Management for Engineers		