

# **Civil: Structural Engineering (Option A)**

**September 2023** (students who entered *first year* in September 2018 or later)

## Term A

NMM 2270a Applied Math for Engineering II (Formerly AM 2270B)
CEE 2224 Engineering Fluid Mechanics
CEE 2202a Mechanics of Materials
CEE 2217a Introduction to Environmental Engineering
CEE 2220a Introduction to Structural Engineering
SS 2141a Applied Probability and Statistics for Engineers

### Term B

NMM 2277b Applied Math for Chemical and Civil Engineering II

(Formerly AM 2277B)

CEE 2224 Engineering Fluid Mechanics

CEE 2219b Computation Tools for Civil Engineers

CEE 2221b Structural Theory and Design EarthSci 2281b Geology for Engineers

Writing 2130g Building Better (Communication) Bridges: Rhetoric &

**Professional Communication for Engineers** 

**Note: CEE 3324a (Surveying).** This course is available each summer (10 days) Must complete before graduation from program.

# Year 3:

## Term A

CEE 3321a	Soil Mechanics and Hydrogeologic Engineering		
CEE 3340a	Analysis of Indeterminate Structures		
CEE 3369a	Materials for Civil Engineering		
CEE 3347a	Reinforced Concrete Design		
CEE 3348a	Project Management and Engineering Cases		
One 0.5 Non-technical elective taken from the approved list			

#### Term B

CEE 3322b	Introduction to Geotechnical Engineering
CEE 3343b	Finite Element Methods and Application to Lateral
	Analysis of Buildings
CEE 3346b	Steel Design
CEE 3358b	Reinforced and Prestressed Concrete Design
CEE 3344b	Structural Dynamics I

# **Year 4:**

## Term A

CEE 4441 Civil Engineering Design Project
CEE 4426a Geotechnical Engineering Design

CEE 4491a Structural Dynamics II

One 0.5 Non-technical elective taken from approved list

Two 0.5 Technical electives

#### Term B

CEE 4441	Civil Engineering Design Project
CEE 4424b	Earth Structures Engineering
CEE 4478b	Case Studies in Civil Engineering

ELI 4110g Engineering Ethics, Sustainable Development and the Law

One 0.5 Non-technical elective taken from approved list

One 0.5 Technical elective

#### **NOTES:**

#### Important:

Students are responsible for ensuring they have the correct courses required for their degree. If you are unsure which courses you still need or if you see courses listed on the progression sheet that are no longer offered or are not offered in the term you see listed here, please contact your Academic Counsellor.

#### Non-technical Electives:

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 Academic Timetable for a current listing.

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CEE 3355a/b	Municipal Engineering Design
CEE 4401 a/b	Principles of Transportation
	Engineering
CEE 4418a/b	Systems Approach for Civil and
	Environmental Engineering
CEE 4428a/b	Selected Topics in Civil Engineering I
CEE 4429a/b	Selected Topics in Civil Engineering II
CEE 4438a/b	Introduction to Wood Design
CEE 4440	Civil Engineering Thesis (full year course
CEE 4440	- 1.0 Technical Elective)
CEE 44E02/b	Risk Analysis and Decision Making in
CEE 4458a/b	Engineering
CEE 4459a/b	Design of Lateral Load Structural Systems
CEE 4465a/b	Environmental Design for Waste Disposal
CEE 4476a/b	Environmental Hydraulics Design
CEE 4480a/b	Wind Engineering: Modelling,
	Assessment and Mitigation
CEE 4485a/b	Cities: Resilience and Sustainability
CBE 4405a/b	Air Pollution
EarthSci 3340a/b	Watershed Hydrology
EarthSci 4440a/b	Hydrogeology: Principles, Processes,
	and Professional Practice
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