

Civil: Structural Engineering (Option A)

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

Year 2: Term A AM 2270a Applied

AM 2270a Applied Math for Engineering II
CEE 2224 Engineering Fluid Mechanics
CEE 2202a Mechanics of Materials
CEE 2217a Introduction to Environmental I

CEE 2217a Introduction to Environmental Engineering
CEE 2220a Introduction to Structural Engineering
SS 2141a Applied Probability and Statistics for Engineers

Term B

AM 2277b Applied Math for Chemical and Civil Engineering II

CEE 2224 Engineering Fluid Mechanics

CEE 2219b Computation Tools for Civil Engineers
CEE 2221b Structural Theory and Design
Earth Sc. 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 (15 days) and must be completed before a student may graduate from the Civil Engineering program.

Year 3:

Term A

CEE 3321a Soil Mechanics and Hydrogeologic Engineering
CEE 3340a Analysis of Indeterminate Structures

CEE 3344a Structural Dynamics I
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 3369b Materials for Civil Engineering

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

One 0.5 Technical elective

Term B

CEE 4441 Civil Engineering Design Project
CEE 4478b Case Studies in Civil Engineering

ES 4498G Engineering Ethics, Sustainable Development and the Law

One 0.5 Non-technical elective taken from approved list

Two 0.5 Technical electives

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:

Please choose a maximum of 1.0 credits (one 1.0 credit course or two 0.5 credit courses) from the 1000 level and a minimum of one 0.5 credit from the 2000 (or higher) level.

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 4424a/b	Earth Structures Engineering
CEE 4428a/b	Selected Topics in Civil Engineering I
CEE 4429a/b	Selected Topics in Civil Engineering II
CEE 4440	Civil Engineering Thesis (full year course
	- counts as two technical electives)
CEE 4458a/b	Risk Analysis and Decision Making in
	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
Earth Sc. 3340a/b	Watershed Hydrology