

## Civil: Environmental Engineering (Option B)

September 2021 (students who entered *first year* in September 2016 or earlier)

### Year 2:

#### Term A

AM 2270a	Applied Math for Engineering II
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

AM 2277b	Applied Math for Civil and Chemical 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 3347a	Reinforced Concrete Design
CEE 3348a	Project Management and Engineering Cases
CEE 3362a	Drinking Water Quality and Treatment
CEE 3386a	Numerical Modeling for Environmental Engineers
EarthSc.3340a	Watershed Hydrology

#### Term B

CEE 3322b	Introduction to Geotechnical Engineering
CEE 3355b	Municipal Engineering Design
CEE 3361b	Water Resources Management
CEE 3369b	Materials for Civil Engineering
CBE 4409b	Wastewater Treatment
One 0.5 Non-technical elective taken from the approved list.	

### Year 4:

#### Term A

CEE 4441	Civil Engineering Design Project
CEE 4426a	Geotechnical Engineering Design
CEE 4465a	Environmental Design for Waste Disposal
CEE 4476a	Environmental Hydraulics Design
One 0.5 Non-technical elective taken from approved list	
One 0.5 Technical electives	

#### 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](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.

CEE 4401a/b	Principles of Transportation Engineering
CEE 4418a/b	Systems Approach for Civil and Environmental Engineering
CEE 4424a/b	Earth Structure 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 - counts as two technical electives)
CEE 4458a/b	Risk Analysis and Decision Making in Engineering
CEE 4463a/b	Watershed Modeling
CEE 4479a/b	Subsurface Contamination by Hazardous Industrial Chemicals
CEE 4480a/b	Wind Engineering: Modelling, Assessment and Mitigation
CEE 4485a/b	Cities: Resilience and Sustainability
CBE 4405a/b	Air Pollution
CBE 4463a/b	Water Pollution Design
Earth Sc.4440a/b	Hydrogeology