

Civil: Environmental Engineering (Option B)

September 2020 (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

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|-----------------|----------------------------------------------------------------------------------------------|
| 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

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| 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

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|--------------------------------------------------------------|------------------------------------------|
| 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

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|---------------------------------------------------------|-----------------------------------------|
| 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

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|---------------------------------------------------------|---------------------------------------------------------|
| 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 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:

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 4401a/b | Principles of Transportation Engineering |
| CEE 4405a/b | Air Pollution |
| 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 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 4463a/b | Water Pollution Design |
| Earth Sc.4440a/b | Hydrogeology |