

## Civil: Environmental Engineering (Option B)

**September 2019** (students who entered *first year* in September 2015 or earlier)

<p><b>Year 2:</b></p> <p><b>Term A</b></p> <p>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</p> <p><b>Term B</b></p> <p>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          ES 2211G Engineering Communications</p> <p><i>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.</i></p> <p><b>Year 3:</b></p> <p><b>Term A</b></p> <p>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</p> <p><b>Term B</b></p> <p>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.</p> <p><b>Year 4:</b></p> <p><b>Term A</b></p> <p>CEE 4441 Civil Engineering Design Project          CEE 4426a Geotechnical Engineering Design          CEE 4465a Environmental Design for Waste Disposal          Bus 2299E Business for Engineers          Two 0.5 Technical electives</p> <p><b>Term B</b></p> <p>CEE 4441 Civil Engineering Design Project          CEE 4476b Environmental Hydraulics Design          CEE 4478b Case Studies in Civil Engineering          Bus 2299E Business for Engineers          ES 4498G Engineering Ethics, Sustainable Development and the Law          One 0.5 Technical elective</p>	<p><b>NOTES:</b></p> <p><b>Important:</b>          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.</p> <p><b>Non-technical Electives:</b>          For a list of approved non-technical electives, please visit:  <a href="http://www.eng.uwo.ca/undergraduate/upper_year/electives.html">http://www.eng.uwo.ca/undergraduate/upper_year/electives.html</a></p> <p><b>Technical Elective List:</b>          Some technical electives may not be offered in a given academic year. Consult the Academic Timetable for a current listing.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">CEE 4401a/b</td> <td style="padding: 2px;">Principles of Transportation Engineering</td> </tr> <tr> <td style="padding: 2px;">CEE 4405a/b</td> <td style="padding: 2px;">Air Pollution</td> </tr> <tr> <td style="padding: 2px;">CEE 4418a/b</td> <td style="padding: 2px;">Systems Approach for Civil and Environmental Engineering</td> </tr> <tr> <td style="padding: 2px;">CEE 4428a/b</td> <td style="padding: 2px;">Selected Topics in Civil Engineering I</td> </tr> <tr> <td style="padding: 2px;">CEE 4429a/b</td> <td style="padding: 2px;">Selected Topics in Civil Engineering II</td> </tr> <tr> <td style="padding: 2px;">CEE 4440</td> <td style="padding: 2px;">Civil Engineering Thesis (full year course - counts as two technical electives)</td> </tr> <tr> <td style="padding: 2px;">CEE 4458a/b</td> <td style="padding: 2px;">Risk Analysis and Decision Making in Engineering</td> </tr> <tr> <td style="padding: 2px;">CEE 4479a/b</td> <td style="padding: 2px;">Subsurface Contamination by Hazardous Inorganics</td> </tr> <tr> <td style="padding: 2px;">CEE 4480a/b</td> <td style="padding: 2px;">Wind Engineering: Modelling, Assessment and Mitigation</td> </tr> <tr> <td style="padding: 2px;">CEE 4485a/b</td> <td style="padding: 2px;">Cities: Resilience and Sustainability</td> </tr> <tr> <td style="padding: 2px;">CBE 4463a/b</td> <td style="padding: 2px;">Water Pollution Design</td> </tr> <tr> <td style="padding: 2px;">Earth Sc.4440a/b</td> <td style="padding: 2px;">Hydrogeology</td> </tr> <tr> <td style="padding: 2px;"> </td> <td style="padding: 2px;"> </td> </tr> </table>	CEE 4401a/b	Principles of Transportation Engineering	CEE 4405a/b	Air Pollution	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 4440	Civil Engineering Thesis (full year course - counts as two technical electives)	CEE 4458a/b	Risk Analysis and Decision Making in Engineering	CEE 4479a/b	Subsurface Contamination by Hazardous Inorganics	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		
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