

I. CIVIL ENGINEERING AND ARTIFICIAL INTELLIGENCE SYSTEMS ENGINEERING, SMART CITIES AND ENVIRONMENTAL ENGINEERING OPTION I (students who entered *first year* in September 2023 or later)

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| <p>Year 2:</p> <p>Term A</p> <table border="1"> <tr><td>NMM 2270A</td><td>Applied Math for Engineering II</td></tr> <tr><td>AISE 2205A</td><td>Algorithms & Data Structure for Object-Oriented Design</td></tr> <tr><td>CEE 2202A</td><td>Mechanics of Materials</td></tr> <tr><td>CEE 2217A</td><td>Introduction to Environmental Engineering</td></tr> <tr><td>CEE 2220A</td><td>Introduction to Structural Engineering</td></tr> <tr><td>CEE 2224</td><td>Engineering Fluid Mechanics</td></tr> </table> <p>Term B</p> <table border="1"> <tr><td>NMM 2277B</td><td>Applied Mathematics for Chem & Civil Eng. III</td></tr> <tr><td>SS 2143B</td><td>Applied Probability and Statistics for Engineers</td></tr> <tr><td>AISE 2251B</td><td>Software Design for Systems Engineering</td></tr> <tr><td>CEE 2219B</td><td>Computation Tools for Civil Engineers</td></tr> <tr><td>CEE 2221B</td><td>Structural Theory and Design</td></tr> <tr><td>CEE 2224</td><td>Engineering Fluid Mechanics</td></tr> </table> <p>Year 3:</p> <p>Term A</p> <table border="1"> <tr><td>DS 3000A</td><td>Introduction to Machine Learning</td></tr> <tr><td>AISE 3309A</td><td>Database Management Systems</td></tr> <tr><td>AISE 3350A</td><td>Cyber-Physical Systems Theory</td></tr> <tr><td>CEE 3348A</td><td>Project Management & Engineering Cases</td></tr> <tr><td>CEE 4401A</td><td>Introduction to Transportation</td></tr> </table> <p>Term B</p> <table border="1"> <tr><td>AISE 3010B</td><td>Data Engineering and Machine Learning</td></tr> <tr><td>AISE 3351B</td><td>Digital Systems and Signal Processing</td></tr> <tr><td>Earth Sc. 2281B</td><td>Geology for Engineers</td></tr> <tr><td>CEE 4412B</td><td>Intelligent Transportation Systems</td></tr> <tr><td>Writing 2130g</td><td>Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers</td></tr> <tr><td colspan="2">1.0 non-technical electives</td></tr> </table> <p>Year 4:</p> <p>Term A</p> <table border="1"> <tr><td>AISE 4010A</td><td>Deep Learning for Time Series Data</td></tr> <tr><td>AISE 4430A</td><td>Introduction to Computer Networking, Security & IOT Systems</td></tr> <tr><td>CEE 3321A</td><td>Soil Mechanics & Hydrogeologic Engineering</td></tr> <tr><td>CEE 3369A</td><td>Materials for CIVIL Engineering</td></tr> <tr><td>CEE 3362A</td><td>Drinking Water Quality and Treatment</td></tr> <tr><td>Earth Sc. 3340A</td><td>Watershed Hydrology</td></tr> </table> <p>Term B</p> <table border="1"> <tr><td>CEE 3322B</td><td>Introduction to Geotechnical Engineering</td></tr> <tr><td>CEE 3355B</td><td>Municipal Engineering Design</td></tr> <tr><td>CEE 4476B</td><td>Environmental Hydraulics Design</td></tr> <tr><td>CBE 4409B</td><td>Wastewater Treatment</td></tr> <tr><td>CEE 3386B</td><td>Numerical Modelling for Environmental Engineers</td></tr> <tr><td colspan="2">One 0.5 non-technical elective</td></tr> </table> | NMM 2270A | Applied Math for Engineering II | AISE 2205A | Algorithms & Data Structure for Object-Oriented Design | CEE 2202A | Mechanics of Materials | CEE 2217A | Introduction to Environmental Engineering | CEE 2220A | Introduction to Structural Engineering | CEE 2224 | Engineering Fluid Mechanics | NMM 2277B | Applied Mathematics for Chem & Civil Eng. 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Offered each August (10 days) and must be completed before a student may graduate.</p> <p>Important:</p> <p>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>*Non-technical Electives:</p> <p>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.</p> <p>http://www.eng.uwo.ca/undergraduate/upper_year/electives.html</p> <p>Technical Electives:</p> <p>** AISE technical electives</p> <ul style="list-style-type: none"> - refer to a list of AI-based technical courses approved by the AISE program committee. The list consists of AI-based courses offered by the Faculty of Engineering and Faculty of Science at Western. The list will be updated every year. <p>Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.</p> <p>CEE Technical Electives</p> <table border="1"> <tr><td>CEE 3355A/B</td><td>Municipal Engineering Design</td></tr> <tr><td>CEE 4414 A/B</td><td>Machine Learning for Water Resources</td></tr> <tr><td>CEE 4417A/B</td><td>Smart Buildings</td></tr> <tr><td>CEE 4428A/B</td><td>Selected Topics in Civil Engineering I</td></tr> <tr><td>CEE 4429A/B</td><td>Selected Topics in Civil Engineering II</td></tr> <tr><td>CEE 4438A/B</td><td>Introduction to Wood Design</td></tr> <tr><td>CEE 4440</td><td>Civil Engineering Thesis (full year course - counts as two technical electives)</td></tr> <tr><td>CEE 4458A/B</td><td>Risk Analysis and Decision Making in Engineering</td></tr> <tr><td>CEE 4459A/B</td><td>Design of Lateral Load Structural Systems</td></tr> <tr><td>CEE 4465A/B</td><td>Environmental Design for Waste Disposal</td></tr> <tr><td>CEE 4476A/B</td><td>Environmental Hydraulics Design</td></tr> <tr><td>CEE 4480A/B</td><td>Wind Engineering: Modelling, Assessment and Mitigation</td></tr> <tr><td>CEE 4485A/B</td><td>Cities: Resilience and Sustainability</td></tr> <tr><td> </td><td> </td></tr> <tr><td>Earth Sc. 4440A/B</td><td>Hydrogeology: Principles, Processes, and Professional Practice</td></tr> </table> | CEE 3355A/B | Municipal Engineering Design | CEE 4414 A/B | Machine Learning for Water Resources | CEE 4417A/B | Smart Buildings | 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 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. 4440A/B | Hydrogeology: Principles, Processes, and Professional Practice |
| NMM 2270A | Applied Math for Engineering II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 2205A | Algorithms & Data Structure for Object-Oriented Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 2202A | Mechanics of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 2217A | Introduction to Environmental Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 2220A | Introduction to Structural Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 2224 | Engineering Fluid Mechanics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NMM 2277B | Applied Mathematics for Chem & Civil Eng. III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS 2143B | Applied Probability and Statistics for Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 2251B | Software Design for Systems Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 2219B | Computation Tools for Civil Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 2221B | Structural Theory and Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 2224 | Engineering Fluid Mechanics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DS 3000A | Introduction to Machine Learning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 3309A | Database Management Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 3350A | Cyber-Physical Systems Theory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3348A | Project Management & Engineering Cases | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 4401A | Introduction to Transportation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 3010B | Data Engineering and Machine Learning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 3351B | Digital Systems and Signal Processing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earth Sc. 2281B | Geology for Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 4412B | Intelligent Transportation Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Writing 2130g | Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 non-technical electives | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 4010A | Deep Learning for Time Series Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AISE 4430A | Introduction to Computer Networking, Security & IOT Systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3321A | Soil Mechanics & Hydrogeologic Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3369A | Materials for CIVIL Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3362A | Drinking Water Quality and Treatment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Earth Sc. 3340A | Watershed Hydrology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3322B | Introduction to Geotechnical Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3355B | Municipal Engineering Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 4476B | Environmental Hydraulics Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CBE 4409B | Wastewater Treatment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3386B | Numerical Modelling for Environmental Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| One 0.5 non-technical elective | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 3355A/B | Municipal Engineering Design | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 4414 A/B | Machine Learning for Water Resources | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEE 4417A/B | Smart Buildings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Earth Sc. 4440A/B | Hydrogeology: Principles, Processes, and Professional Practice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Year 5:

Term A

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| AISE 4050 or CEE 4442 | Artificial Intelligence Systems Engineering Design II or Smart Cities Capstone Design Project |
| AISE 4450A | Data Driven Control of Cyber-Physical Systems |
| AISE 3020A | AI: Ethics, Bias and Privacy |
| AISE 4020A or CEE 4420A | Artificial Intelligence Systems Engineering Design I or Data Science in Geotechnical Engineering |
| CEE 4465A | Environmental Design for Waste Disposal |
| CEE 4426A | Geotechnical Engineering Design |

Term B

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| CEE 4416B | Digital Water Infrastructures |
| CEE 4463B | Watershed Modelling |
| CEE 4478b | Case Studies in Civil Engineering |
| CEE 4414B | Machine Learning for Water Resources |
| ELI 4110G | Engineering Ethics, Sustainable Development and the Law |
| AISE 4050 or CEE 4442 | Artificial Intelligence Systems Engineering Design II Smart Cities Capstone Design Project |