

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)

<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. 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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. 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Year 5:

Term A

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

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 or Smart Cities Capstone Design Project