

## Civil: Structural Engineering with International Development (Option G)

September 2024 (students who entered *first year* in September 2023 or later)

### Year 2:

#### Term A

NMM 2270a	Applied Math for Engineering II (Formerly AM 2270A)
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

NMM 2277b	Applied Math for Civil and Chemical Engineering II (Formerly AM 2277B)
CEE 2224	Engineering Fluid Mechanics
CEE 2219b	Computational Tools for Civil Engineers
CEE 2221b	Structural Theory and Design
Earth Sci 2281b	Geology for Engineers
Writing 2130G	Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers

### Year 3:

#### Term A

CEE 3321a	Soil Mechanics and Hydrogeologic Engineering
CEE 3327a	International Development for Civil Engineers
CEE 3340a	Analysis of Indeterminate Structures
CEE 3347a	Reinforced Concrete Design
CEE 3348a	Project Management and Engineering Cases
CEE 3369a	Materials for Civil Engineering

#### Term B

CEE 3322b	Introduction to Geotechnical Engineering
CEE 3328b	Appropriate Technologies for International Development
CEE 3344b	Structural Dynamics I
CEE 3343b	Finite Element Methods and Application to Lateral Analysis of Buildings
CEE 3346b	Steel Design
CEE 3358b	Reinforced and Prestressed Concrete Design

**Note: CEE 3324a (Surveying).** This course is available each summer (10 days) Must complete before graduation from program.

### Year 4:

#### Term A

CEE 4441	Civil Engineering Design Project (International Community Development)
CEE 4426a	Geotechnical Engineering Design
CEE 4491a	Structural Dynamics II
Two 0.5 Non-technical electives taken from approved list	
One 0.5 Technical elective	

#### Term B

CEE 4441	Civil Engineering Design Project (International Community Development)
CEE 4404b	Advanced Topics in International Development for Engineers
CEE 4424b	Earth Structures Engineering
CEE 4478b	Case Studies in Civil Engineering
ELI 4110g	Engineering Ethics, Sustainable Development and the Law
One 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:

[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 4405a/b	Air Pollution
CEE 4418a/b	Systems Approach for Civil and Environmental
CEE 4420a/b	Data Science for Geotechnical Engineers
CEE 4427a/b	Selected Topics in International Development
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 4458a/b	Risk Analysis and Decision Making in Engineering
CEE 4459a/b	Lateral Load Structural System
CEE 4476a/b	Environmental Hydraulics Design
CEE 4440	Civil Engineering Thesis (full year course – 1.0 Technical Elective)
CEE 4480a/b	Wind Engineering: Modelling, Assessment and Mitigation
CEE 4485a/b	Cities: Resilience and Sustainability
Geog. 2030a/b	Africa South of the Sahara
CGS 2002 F/G	Problems of Global Development