

## Civil: Environmental Engineering with International Development (Option F)

September 2019 (students who entered *first year* in September 2015 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

#### Term B

AM 2277b	Applied Math for Engineering II
CEE 2224	Engineering Fluid Mechanics
CEE 2219b	Computational Tools for Civil Engineers
CEE 2221b	Structural Theory and Design
Earth Sc. 2281b	Geology for Engineers
ES 2211G	Engineering Communications

**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

CEE 3321a	Soil Mechanics and Hydrogeologic Engineering
CEE 3327a	International Development for Engineers
CEE 3347a	Reinforced Concrete Design
CEE 3348a	Project Management and Engineering Cases
CEE 3362a	Drinking Water Quality and Treatment
Earth Sc.3340a	Watershed Hydrology

#### Term B

CEE 3322b	Introduction to Geotechnical Engineering
CEE 3328b	Appropriate Technologies for International Development
CEE 3355b	Municipal Engineering Design
CEE 3361b	Water Resources Management
CEE 3369b	Materials for Civil Engineering
CBE 4409b	Wastewater Treatment

### Year 4:

#### Term A

CEE 4441	Civil Engineering Design
CEE 3386a	Numerical Modeling for Environmental Engineers
CEE 4426a	Geotechnical Engineering Design
CEE 4465a	Environmental Design for Waste Disposal
Bus 2299E	Business for Engineers
One 0.5 Technical elective	

#### Term B

CEE 4441	Civil Engineering Design Project
CEE 4404b	Advanced Topics in International Development for Eng.
CEE 4478b	Case Studies in Civil Engineering
ES 4498G	Engineering Ethics, Sustainable Development and the Law
Bus 2299E	Business for Engineers
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.

#### Technical Electives 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 Engineering
CEE 4427a/b	Special Topics in International Development
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 4479a/b	Subsurface Contamination by Hazardous Industrial Chemical
CEE 4480a/b	Wind Engineering: Modelling, Assessment and Mitigation
CEE 4485a/b	Cities: Resilience and Sustainability
Earth Sc.4440a/b	Hydrogeology
Centre for Global Studies 2002F/G	Problems of Global Development
Centre for Global Studies 3004a/b	International Development Project Management
Geography 2020a/b	Latin America and the Caribbean: Landscapes of Inequality
Geography 2030a/b	Africa South of the Sahara
Geography 2040a/b	Geography of East and Southeast Asia