

CIVIL ENGINEERING, B.A.SC. (CLASS OF 2025)

Second Year CORE 2022-2023

| Code | Title | Units |
|--------------------------------|----------------------------------|--------------|
| APSC 200 | Engineering Design & Practice II | 4.00 |
| APSC 221 | Economic And Business Practice | 3.00 |
| APSC 293 | Engineering Communications | 1.00 |
| CIVL 200 | Professional Skills I | 2.50 |
| CIVL 210 | Chemistry For Civil Engineers | 4.50 |
| CIVL 215 | Materials For Civil Engineers | 4.50 |
| CIVL 222 | Numerical Methods | 5.00 |
| CIVL 230 | Solid Mechanics I | 4.25 |
| CIVL 231 | Solid Mechanics II | 4.50 |
| CIVL 250 | Hydraulics I | 4.00 |
| MTHE 224 | Applied Math For Civil Eng. | 4.20 |
| Complementary Studies - List A | | 3.00 |
| Total Units | | 44.45 |

Note: A minimum of 6 credits must be taken from Complementary Studies List A.

Third Year CORE 2023-2024

| Code | Title | Units |
|--------------------------------|---|--------------|
| CIVL 300 | Professional Skills II | 2.50 |
| CIVL 330 | Structural Analysis | 3.75 |
| CIVL 331 | Structural Steel and Timber Design | 4.00 |
| CIVL 340 | Geotechnical Engineering 1 | 3.75 |
| CIVL 341 | Geotechnical Engineering 2 | 4.00 |
| CIVL 350 | Hydraulics 2 | 3.75 |
| CIVL 360 | Civil Engineering Design and Practice III | 4.00 |
| CIVL 371 | Groundwater Engineering | 3.75 |
| CIVL 372 | Water and Wastewater | 4.00 |
| Complementary Studies - List A | | 3.00 |
| Complementary Studies - List B | | 3.00 |
| Total Units | | 39.50 |

Note: A minimum of 6 credits must be taken from Complementary Studies List A.

Fourth Year CORE 2024-2025

| Code | Title | Units |
|-----------------------------------|--|-------|
| CIVL 400 | Professional Skills III | 2.50 |
| CIVL 460 | Civil Engineering Design and Practice IV | 6.00 |
| Complementary Studies List A or B | | 3.00 |

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|--------------------|--------------|
| Electives | 25.75 |
| Total Units | 37.25 |

Electives

All students must choose **eight** Electives, **at least six of which must be Technical Electives from List 1 shown below**. The **Seventh** Elective may be from List 1 or List 2 shown below. The **Eighth** Elective may be from List 1 or List 2 or a Free Elective - see course list below.

Civil Engineering: Technical Electives (<https://queensu-ca-public.courseleaf.com/engineering-applied-sciences/academic-plans/civil-engineering/civil-engineering-technical-electives/>)

A Free Elective can be any of the following courses with a minimum of 3 credits:

- Any 3 credit course appearing anywhere in the Applied Science calendar, in the course descriptions list, in the requirements for any academic plan, or in the lists of eligible complementary studies courses
- Any course at the 100 level or higher from the Arts and Science calendar with any of the following subject codes: ANAT, BCHM, BIOL, CDNS, CHEM, CISC, COGS, COMM, DEVS, GEOL, GIMS, GISC, GISQ, GPHY, HLTH, IDIS, INTS, ENSC, EPID, LING, MATH, MICR, PHAR, PHYS, PHGY, STSC, STAT, WRIT
- Any of the graduate courses offered in Urban and Regional Planning

Free Electives must be approved by the Undergraduate Chair, please contact the Undergraduate Program Assistant.

- APSC 480 Multi-disciplinary Industry : Units will not count towards the requirements of taking at least six Technical Electives from List 1 but because of the number of units, they will count towards a Technical Elective, List 2 and Free Elective.
- APSC 303 Professional Internship **can count as a Free Elective (3.5 units) for students who have successfully completed a Queen's Undergraduate Internship Program (QUIP)**.