

# CIVIL ENGINEERING, B.A.SC. (CLASS OF 2027)

## Second Year CORE 2024-2025

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
<b>Total Units</b>		<b>44.45</b>

Not a minimum of 6 credits must be taken from Complementary Studies List A.

## Third Year CORE 2025-2026

Code	Title	Units
CIVL 300	Professional Skills II	2.50
CIVL 330	Structural Analysis	4.00
CIVL 331	Structural Steel and Timber Design	4.00
CIVL 340	Geotechnical Engineering 1	4.00
CIVL 341	Geotechnical Engineering 2	4.00
CIVL 350	Hydraulics 2	4.00
CIVL 360	Civil Engineering Design and Practice III	4.00
CIVL 371	Groundwater Engineering	4.00
CIVL 372	Water and Wastewater	4.00
Complementary Studies List A		3.00
Complementary Studies List B		3.00
<b>Total Units</b>		<b>40.50</b>

Not a minimum of 6 credits must be taken from Complementary Studies List A.

## Fourth Year CORE 2026-2027

Code	Title	Units
CIVL 400	Professional Skills III	2.50
CIVL 460	Civil Engineering Design and Practice IV	6.00
Complementary Studies A or B		3.00
Electives		25.75

## 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://www.queensu.ca/academic-calendar/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 (<https://www.queensu.ca/academic-calendar/search/?P=APSC%20480>) 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 (<https://www.queensu.ca/academic-calendar/search/?P=APSC%20303>) Professional Internship **can count as a Free Elective (3.5 units) for students who have successfully completed a Queen's Undergraduate Internship Program (QUIP)**.