

Bachelor of Engineering (Civil)

Year 1

Year 2

Year 3

Year 4

Autumn

Spring

Autumn

Spring

Autumn

Spring

Autumn

Spring

ENGG105
Engineering
Design for
Sustainability

ENGG100
Engineering
analysis and
Computing

ENGG251
Mechanics
of Solids

CIVL201
Computer
Modelling in
CE

CIVL352
Structures 1

Elective-1

CIVL451
Construction

CIVL458
Fundamentals
of Construction
Management

ENGG102
Fundamentals
of Engineering
Mechanics

ENGG104
Electrical
Systems

ENGG252
Fluid
Mechanics

CIVL245
Construction
Materials

CIVL361
Geo-
mechanics

CIVL365
Principles of
Foundation
Engineering

ENGG461
Managing
Projects

CMEA444
Multidiscipli-
nary
Engineering
Design

MATH141
Fundamentals
of Engineering
Mathematics

MATH142
Essential of
Engineering
Mathematics

CHEM103
Chemistry for
Engineers

EESC252
Engineering
and
Environmental
Geology

CIVL311
Structural
Design 1

CIVL314
Structural
Design 2

CMEA498/
CMEA499

CMEA498/
CMEA499

ENGG103
Materials in
Design

PHYS143
Physics for
Engineers

MATH283
Advanced
Engineering
Mathematics
and Statistics

CIVL272
Surveying

CIVL322
Hydraulics
and
Hydrology

Elective-2

Elective-3

CMEA499

OR

Elective-4

Pre-requisite: 
Co-requisite: 

All students must complete ENGG454 Professional Experience (0 cp)

For students in CMEA498: Any 2 electives from List A and 2 electives from List A or B

For students in CMEA499: Any 1 elective from List A and 2 electives from List A or B

List A Electives

[AENG200 History of Architectural Design](#)
[AENG201 Architectural Engineering Design 1: Net Zero Energy Houses](#)
[AENG301 Architectural Engineering Design 2](#)
[CIVL463 Applied Geotechnical Engineering](#)
[CIVL489 Sustainable Road & Transport Engineering](#)
[CIVL491 Applied Finite Element Analysis for Civil Engineers](#)
[CMEA234 Computer Applications for the Workplace](#)
[CSCI291 Programming for Engineers](#)
[ENGG210 Building Physics and Building Services](#)
[ENGG310 Building Information Modelling for Engineers](#)
[ENGG433 Financial Management for Engineers](#)
[ENGG439 Engineering Logistics and Operations Management](#)
[ENGG440 Strategic Management of Engineering](#)
[ENVE220 Water Quality and Ecological Engineering](#)
[ENVE221 Air and Noise Pollution Control Engineering](#)
[ENVE311 Pollution Control and Cleaner Production](#)
[ENVE320 Environmental Engineering Design for Sustainability](#)
[ENVE377 Membrane Science and Technology](#)
[ENVE410 Site Remediation Engineering](#)
[ENVE420 Water Resources Engineering](#)
[MECH372 Solids Handling and Process Engineering](#)
[MECH426 Storage, Flow and Mechanical Conveying of Bulk Solids](#)
[MINE211 Surface Mining Methods](#)

or other approved Engineering Electives

List B Electives

List B electives are common to all majors for the Bachelor of Engineering (Hons) and listed here <https://courses.uow.edu.au/courses/current/1856>

Students can do a minor by completing 24 CP from any other engineering discipline. Please refer to

<https://courses.uow.edu.au/courses/current/1856>

Bachelor of Engineering (with Civil Engineering Minor)

Mining, Environmental, Architectural, Materials or Mechanical Engineering and other majors can graduate with Civil Engineering minor on completion of the following recommended civil engineering subjects in lieu of List A and List B electives. A minor in Civil Engineering may help in securing jobs in the civil engineering industry.



BE(Hons) Mining, Environmental, Architectural, Materials or Mechanical Engineering major 168 cp

Year 1

48 Credit points (cp) common core

Year 2

48 Credit points (cp) major offerings

Years 3 and 4

72 Credit points (cp) major offerings

Approved civil minor replacing 24 cp List A and B electives

At least 6cp from this list

CIVL201 Computer Modelling in Civil Engineering

CIVL245 Construction Materials

CIVL272 Surveying

12 to 18 cp from the following to ensure students complete 24 cp
(note some subjects have pre and co-requisites).

CIVL352 Structures 1

CIVL361 Geomechanics

CIVL311 Structural Design 1

CIVL322 Hydraulics and Hydrology

CIVL451 Construction

CIVL458 Fundamentals of Construction Management

CIVL365 Principles of Foundation Engineering

CIVL491 Applied Finite Element Analysis for Civil Engineers

ENVE420 Water Resources Engineering