

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

ENGG461
Managing
Projects

CIVL458
Fundamentals
of Construction
Management

ENGG102
Fundamentals
of Engineering
Mechanics

ENGG104
Electrical
Systems

ENGG252
Fluid
Mechanics

CIVL245
Construction
Materials

CIVL361
Geo-
mechanics

CIVL394
Construction

CIVL462
Principles of
Foundation
Engineering

CIVL444
Civil
Engineering
Design

MATH141
Fundamentals
of Engineering
Mathematics

MATH142
Essential of
Engineering
Mathematics

CHEM103
Chemistry for
Engineers

EESC252
Geology for
Engineers 1

CIVL311
Structural
Design 1

CIVL314
Structural
Design 2

ENGG452/
ENGG453

ENGG452/
ENGG453

ENGG103
Materials in
Design

PHYS143
Physics for
Engineers

MATH283
Advanced
Engineering
Mathematics
and Statistics

CIVL272
Surveying

CIVL322
Hydraulics
and
Hydrology

Elective-2

Elective-3

ENGG453

OR

Elective-4

Pre-requisite: 
Co-requisite: 

All students must complete ENGG454 Professional Experience (0 cp)

For students in ENGG452/456: Any 2 electives from List A and 2 electives from List A or B

For students in ENGG453: Any 1 electives from List A and 2 electives from List A or B

Elective A

MINE211	Surface Mining Methods	Autumn
CSCI291	Programming for Engineers	Autumn
ENVE311	Pollution Control and Cleaner Production	Autumn
ENGG440	Strategic Management of Engineering	Autumn
ENGG472	Humanitarian Engineering	Autumn
CIVL491	Applied Finite Element Analysis for Civil Engineers	Autumn
ENVE377	Membrane Science and Technology	Autumn
ENVE420	Water Resources Engineering	Autumn
ENGG477	Ocean Engineering	Autumn
CIVL489	Sustainable Roads & Railway Engineering	Spring
CIVL454	Structures 2	Spring
CIVL463	Applied Geotechnical Engineering	Spring
ENGG433	Financial Management for Engineers	Spring
ENGG439	Engineering Logistics and Operations Management	Spring
ENVE410	Site Remediation Engineering	Spring
ENVE220	Water Quality and Ecological Engineering	Spring
ENVE320	Environmental Engineering Design for Sustainability	Spring
ENVE221	Air and Noise Pollution Control Engineering	Spring
MINE234	Computer Applications in Mining Engineering	Spring

or other approved Engineering Electives

Elective B

ECON215	Microeconomic Theory and Policy	Autumn
ECON102	Economics and Society	Autumn/Spring
ECTE213	Engineering Electromagnetics	Spring
GEOG222	Society and Environment: Resources, Challenges, Futures	Spring
GEOG224	The Future of Food: Resilience, Communities and Policy	Spring
PHYS295	Astronomy - Concepts of the Universe	Spring

Suggested alternatives (subject to APD approval)

EESC105	Introductory Geospatial Analysis	Autumn/Spring
HAS 125	Public Health Achievements and Challenges	Autumn
GEOG338	Planning Urban Futures	Autumn
GEOG221	Population Geography: People, Place, Inequality	Autumn
STS 302	Climate Change Policy, Possible Futures	Autumn
EESC326	Resources and Environments	Spring
HAS 201	Work Health & Safety	Spring
STS 216	Environmental Sociology and Politics	Spring
EESC250	Field Geology	Summer
HAS 210	Introduction to WHS Risk Management	Summer
EESC326	Resources and Environments	Spring

or other approved Engineering or general electives