Bachelor of Engineering (Environmental)

Year 1

Autumn
- ENGG100 Engineering Analysis and Computing
- ENGG102 Fundamentals of Engineering Mechanics
- ENGG103 Materials in Design
- MATH141 Fundamentals of Engineering Mathematics

Spring
- ENGG104 Electrical Systems
- ENGG105 Engineering Design for Sustainability
- MATH142 Essential of Engineering Mathematics
- MATH283 Advanced Engineering Mathematics and Statistics

Year 2

Autumn
- ENGG251 Mechanics of Solids
- ENGG252 Fluid Mechanics
- CHEM103 Chemistry for Engineers
- MATH283 Advanced Engineering Mathematics and Statistics

Spring
- ENVE220 Water Quality and Ecological Engineering
- ENVE221 Air and Noise Pollution Control
- CHEM214 Analytical and Environmental Chemistry
- CIVL272 Surveying

Year 3

Autumn
- ENVE311 Pollution Control and Waste mgmt
- ENVE320 Environmental Engineering Design for Sustainability
- ENVE377 Membrane Science and Technology
- CIVL361 Geo-mechanics 1

Spring
- CIVL322 Hydraulics and Hydrology
- Elective-1
- Elective-2
- Elective-3

Year 4

Autumn
- ENVE420 Water Engineering
- ENVE421 Integrated Environmental Engineering Design
- ENGG454 Professional Experience (0 cp)

Spring
- ENGG452/453 Thesis

Pre-requisite:
- ENGG100
- ENGG104
- MATH141
- MATH142

Co-requisite:
- ENGG102
- ENGG105
- CHEM103
- MATH283

For students in ENGG452/456:
- Any 2 electives from List A and 1 elective from List A or B

For students in ENGG453:
- Any 1 elective from List A and 1 elective from List A or B
<table>
<thead>
<tr>
<th>List A electives</th>
<th>List B electives</th>
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<tbody>
<tr>
<td>CIVL311 Structural Design 1</td>
<td>EESC213 Introductory Spatial Science</td>
</tr>
<tr>
<td>CIVL314 Structural Design 2</td>
<td>EESC302 Coastal Environments: Process and Management</td>
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<tr>
<td>CIVL352 Structures 1</td>
<td>EESC305 Remote Sensing of the Environment</td>
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<tr>
<td>CIVL394 Construction</td>
<td>GEOG222 Society and Environment</td>
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<tr>
<td>CIVL444 Civil Engineering design</td>
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<tr>
<td>CIVL454 Structures 2</td>
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<tr>
<td>CIVL458 Fundamentals of Construction Management</td>
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<tr>
<td>CIVL463 Applied Geotechnical Engineering</td>
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<tr>
<td>MINE211 Surface Mining Methods</td>
<td>MAND151 Chinese (Mandarin) for Beginners</td>
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<tr>
<td>MINE220 Underground Mining Methods</td>
<td>MGNT208 Introduction to Management for Professionals A</td>
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<tr>
<td>MINE324 Mineral Processing</td>
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<tr>
<td>ENGG440 Strategic Management of Engineering</td>
<td>PHIL256 Environmental Philosophy</td>
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<tr>
<td>ENGG447 Advanced Building Design for Energy Efficiency and Sustainability</td>
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<tr>
<td>ENGG477 Ocean Engineering</td>
<td>STS216 Environment Sociology and Politics</td>
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<tr>
<td>Or, other approved Engineering Electives</td>
<td>STS300 The Environmental Context: Imagining a Zero Carbon Future</td>
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Or, other approved General Electives