



THE UNIVERSITY
of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Bachelor of Engineering (Honours) (Civil) – All Majors

Semester 1 Start

[Bachelor of Engineering \(Honours\) \(Civil\)](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Construction Management Major](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Defence Systems Major](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Environmental Engineering Major](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Geotechnical Engineering Major](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Renewable Energy Major](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Smart Technologies Major](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Structural Engineering Major](#)

[Bachelor of Engineering \(Honours\) \(Civil\) - Water Systems Major](#)

Bachelor of Engineering (Honours) (Civil)

| Year 1 | | | | |
|---|---|--|---|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-Engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> |

Core Courses

Electives Table

| CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES | | | | |
|---|---|--|--|--|
| S1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S2 | CEME 1003 Resources and Energy in a Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |
| CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES | | | | |
| TBC | CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/> | CEME 4002 Finite Element Theory and Practice <input type="checkbox"/> | CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/> | CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/> |
| | CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/> | CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/> | CEME 4007 Unsaturated Soils <input type="checkbox"/> | CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/> |
| | CEME 4009 Environmental Decision Making <input type="checkbox"/> | CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/> | ENG 4011 Engineering Geology <input type="checkbox"/> | |
| | CHEM ENG 4051 Water and Wastewater Engineering <input type="checkbox"/> | C&ENVENG 4107 Prestressed Concrete Structures <input type="checkbox"/> | | |

NOTES

^ **EAL:** Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

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General Electives: How to choose an elective course in your area of interest? Please refer to the steps via the link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Program Rules: For academic program rules please refer to the following website: <https://calendar.adelaide.edu.au/faculty/ecms>

Information and Enrolment Advice:

Ask ECMS

Email: askecms@adelaide.edu.au

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Civil) - Construction Management Major

| Year 1 | | | | |
|---|---|--|---|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | DESST 1504 Representation I <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-Engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | DESST 2518 Construction II <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | ENG 3301 Construction Management and Technology I <input type="checkbox"/> | ENG 3302 Cost Planning and Management <input type="checkbox"/> | DESST 3514 Construction III <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | ENG 3303 Construction Management and Technologies <input type="checkbox"/> | ENG 3304 Development and Construction <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

Core Courses

Major Courses

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | |
|--------|--|--|---|--|
| S 1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S 2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |

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Bachelor of Engineering (Honours) (Civil) - Defence Systems Major

| Year 1 | | | | |
|---|---|--|---|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-Engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | ENG 3305 Human Factors for Decision Making <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 3007 Integrated Environment Planning and Impact Assessment <input type="checkbox"/> | CEME 4009 Environmental Decision Making <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | ENG 4020 Complex Systems Engineering <input type="checkbox"/> | ENG 4010 Defence Leadership <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | |
|--------|--|--|---|--|
| S 1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S 2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |

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Bachelor of Engineering (Honours) (Civil) - Environmental Engineering Major

| Year 1 | | | | |
|---|---|---|--|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/> | CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/> | CHEM ENG 4051 Water and Wastewater Engineering <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | CEME 4009 Environmental Decision Making <input type="checkbox"/> | CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

Core Courses Major Courses

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | |
|--------|--|--|---|--|
| S 1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S 2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |

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Bachelor of Engineering (Honours) (Civil) - Geotechnical Engineering Major

| Year 1 | | | | |
|---|---|---|---|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/> | CEME 4007 Unsaturated Soils <input type="checkbox"/> | MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/> |
| S 2 | ENG 4001A Research Project Part B <input type="checkbox"/> | CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/> | ENG 4011 Engineering Geology <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

Core Courses

Major Courses

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | |
|--------|--|--|---|--|
| S 1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S 2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |

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Bachelor of Engineering (Honours) (Civil) - Renewable Energy Major

| Year 1 | | | | |
|---|---|--|--|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-Engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | ELEC ENG 4111 Distributed Generation Technologies <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/> | CEME 3007 Integrated Environment Planning and Impact Assessment <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/> | CEME 4009 Environmental Decision Making <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

| | |
|--------------|---------------|
| Core Courses | Major Courses |
|--------------|---------------|

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | |
|--------|--|--|---|--|
| S 1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S 2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |

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Bachelor of Engineering (Honours) (Civil) - Smart Technologies Major

| Year 1 | | | | |
|---|---|--|---|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level I Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-Engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | COMP SCI 1102 Object Oriented Programming <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | COMP SCI 3001 Computer Networks & App <input type="checkbox"/> | COMP SCI 3305 Parallel and Distributed Computing <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | COMP SCI 4812 Secure Software Engineering <input type="checkbox"/> | MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

| | | | | |
|--------|--|--|---|--|
| S 1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S 2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |

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Bachelor of Engineering (Honours) (Civil) - Structural Engineering Major

| Year 1 | | | | |
|---|---|--|---|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | ENG 4001A Research Project Part B <input type="checkbox"/> | CEME 4002 Finite Element Theory and Practice <input type="checkbox"/> | CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

Core Courses

Major Courses

Electives Table

| CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES | | | | |
|---|---|--|---|--|
| S1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |
| CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES | | | | |
| TBC | CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/> | CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/> | CEME 4007 Unsaturated Soils <input type="checkbox"/> | CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/> |
| | CEME 4009 Environmental Decision Making <input type="checkbox"/> | CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/> | ENG 4011 Engineering Geology <input type="checkbox"/> | CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/> |
| S1 | CHEM ENG 4051 Water and Wastewater Engineering <input type="checkbox"/> | | | |
| S2 | C&ENVENG 4107 Prestressed Concrete Structures <input type="checkbox"/> | | | |

NOTES

^ **EAL:** Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

Internships: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

General Electives: How to choose an elective course in your area of interest? Please refer to the steps via the link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Program Rules: For academic program rules please refer to the following website: <https://calendar.adelaide.edu.au/faculty/ecms>

Information and Enrolment Advice:

Ask ECMS

Email: askecms@adelaide.edu.au

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Civil) - Water Systems Major

| Year 1 | | | | |
|---|---|---|--|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | CEME 1002 Introduction to Infrastructure <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/> | CEME 2004 Introduction to Geo-engineering <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CEME 2002 Structural Mechanics <input type="checkbox"/> | CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/> | General Elective <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/> | CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/> | CEME 3002 Reinforced Concrete Design <input type="checkbox"/> | CEME 3004 Hydrology for Engineers <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | CEME 3003 Structural Steel Design <input type="checkbox"/> | CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/> | CEME 3006 Geotechnical Engineering <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> | Civil Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | ENG 4001A Research Project Part B <input type="checkbox"/> | CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/> | CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/> | CEME 4050 Design Practice <input type="checkbox"/> |

Core Courses

Major Courses

Electives Table

| CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES | | | | |
|---|--|--|--|--|
| S1 | CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> | |
| S2 | CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/> | MECH ENG 1007 Mechanical Engineering <input type="checkbox"/> | | |
| CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES | | | | |
| TBC | CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/> | CEME 4002 Finite Element Theory and Practice <input type="checkbox"/> | CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/> | CEME 4007 Unsaturated Soils <input type="checkbox"/> |
| | CEME 4009 Environmental Decision Making <input type="checkbox"/> | CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/> | ENG 4011 Engineering Geology <input type="checkbox"/> | CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/> |
| S1 | CHEM ENG 4051 Water and Wastewater Engineering <input type="checkbox"/> | | | |
| S2 | C&ENVENG 4107 Prestressed Concrete Structures <input type="checkbox"/> | | | |

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Internships: The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

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