

Bachelor of Engineering (Honours) (Civil) – All Majors- Semester 1 Start

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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 <i>Suggestion: CEME 2006 Environmental Modelling and Simulation</i> <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry 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 during the course of their studies – see note below.				
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 Course		Elective (see table)		

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

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES

S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics
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CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES

S1	CHEM ENG 4051	Water and Wastewater Engineering	S2	C&ENVENG 4109 C&ENVENG 4110	Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
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TBC	CEME 4009 CEME 4007 ENG 4011 CEME 4005 CEME 4006 CEME 4003 CEME 4001 CEME 4002 CEME 4004	Environmental Decision Making Unsaturated Soils Engineering Geology Advanced Hydrological Modelling & Water Resource Systems Advanced Hydrology and Flood Hydraulics Wind and Earthquake Engineering Advanced Reinforced Concrete Design Finite Element Theory and Practice Advanced Water Distribution Systems Engineering
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NOTES

Internship: 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. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

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

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>

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"/>	CEME 3006 Geotechnical Engineering <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"/>	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
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		Elective (see table)

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

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in an Circular Economy Engineering Mechanics – Dynamics
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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

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"/>	CEME 3006 Geotechnical Engineering <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry 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"/>	ENG 3305 Human Factors for Decision Making <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	ENG 4010 Defence Leadership <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"/>	CEME 3007 Integrated Environment Planning and Impact Assessment <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>
Core Courses		Major Courses	Elective (see table)	

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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in an Circular Economy Engineering Mechanics – Dynamics
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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 Systems Engineering and Industry 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 during the course of their studies – see note below.				
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		Elective (see table)

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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in an Circular Economy Engineering Mechanics – Dynamics
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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 <i>Suggestion: CEME 2006 Environmental Modelling and Simulation</i> <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry 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 during the course of their studies – see note below.				
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	Elective (see elective table)	

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

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in an Circular Economy Engineering Mechanics – Dynamics

NOTES

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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 Systems Engineering and Industry 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 during the course of their studies – see note below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	CEME 4050 Design Practice <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 3007 Integrated Environment Planning and Impact Assessment <input type="checkbox"/>
Core Courses		Major Courses		Elective (see electives table)

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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in an Circular Economy Engineering Mechanics – Dynamics

NOTES

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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 1002 Programming (Matlab and C) <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"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry 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 during the course of their studies – see note below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <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"/>
Core Courses		Major Courses	Elective (see electives table)	

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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES

S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in an Circular Economy Engineering Mechanics – Dynamics
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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 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"/>	General Elective <i>Suggestion: CEME 2006 Environmental Modelling and Simulation</i> <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry 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 during the course of their studies – see note below.				
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	Elective (see electives table)	

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S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics
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CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES

S1	CHEM ENG 4051	Water and Wastewater Engineering	S2	C&ENVENG 4109 C&ENVENG 4110	Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
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TBC	CEME 4009 CEME 4007 ENG 4011 CEME 4005 CEME 4006 CEME 4004	Environmental Decision Making Unsaturated Soils Engineering Geology Advanced Hydrological Modelling & Water Resource Systems Advanced Hydrology and Flood Hydraulics Advanced Water Distribution Systems Engineering
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NOTES

Internship: 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. 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 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"/>	General Elective <i>Suggestion: CEME 2006 Environmental Modelling and Simulation</i> <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry 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 during the course of their studies – see note below.				
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		Elective (see electives table)

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

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	S2	CEME 1003 MECH ENG 1007	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	S2	C&ENVENG 4109 C&ENVENG 4110	Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
TBC	CEME 4009 CEME 4007 ENG 4011 CEME 4003 CEME 4001 CEME 4002	Environmental Decision Making Unsaturated Soils Engineering Geology Wind and Earthquake Engineering Advanced Reinforced Concrete Design Finite Element Theory and Practice			

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Civil Engineering Minors

Minors are undertaken by taking 12 units of courses within one of the following streams to replace the electives offered listed on the previous page. If they are not listed on the previous page, the courses below cannot contribute as Environmental Engineering electives unless the full 12-unit Minor is awarded.

Humanitarian Engineering Minor

One course of each labelled **A, B, C, D** must be taken.

Summer			Winter		
A	SPATIAL 3007WT	GIS for Environmental Management III	A	SPATIAL 3020WT	GIS for Agriculture & Natural Resource III
			B	PROJMGMT 3030	Project Logistics and Supply Chains
Semester 1			Semester 2		
C	DEVT 2100	Poverty and Social Development	C	DEVT 2101	Empowerment & Development: Community & Gender
			D	ENG 3201	Essentials of Humanitarian Practice (TBC)

Entrepreneurship Minor

One course of each labelled **A, B, C, D** must be taken.

Summer			Winter		
			A	ENTREP 3000	Innovation and Creativity
Semester 1			Semester 2		
B	ENTREP 3901	Tech eChallenge	A	ENTREP 3000	Innovation and Creativity
C	ENTREP 3015	Entrepreneurial Leadership	B	ENTREP 3900	eChallenge
			D	ENTREP 3011	Startup Methodologies