THE UNIVERSITY of ADELAIDE

2022 Study Plan
Bachelor of Engineering (Honours) (Civil) – Semester 2 Start

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2022 Study Plan
Bachelor of Engineering (Honours) (Civil) – Semester 2 Start

No Major

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective (see notes) ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see elective table) ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	General Elective *Suggestion: CEME 2006 Climate & Environmental Change Impact Modelling* ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3003 Structural Steel Design ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S 1	ENG 4001A Research Project Part A ☐	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4050 Design Practice ☐	Civil Engineering Elective (see elective table) ☐	Civil Engineering Elective (see elective table) ☐
Year 5				
S 1	CEME 3004 Hydrology for Engineers ☐	Civil Engineering Elective (see elective table) ☐	Civil Engineering Elective (see elective table) ☐	Civil Engineering Elective (see elective table) ☐

Core Courses	Elective

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

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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CEME 4001 CEME 4002 CEME 4007 CEME 4008 CHEM ENG 4051	Advanced Reinforced Concrete Design Finite Element Theory and Practice Unsaturated Soils Soil and Ground Water Remediation Water and Wastewater Engineering	**S2**	CEME 4003 CEME 4006 CEME 4009 CEME 4010	Wind and Earthquake Engineering Climate Risk and Resilience Decision Making for Sustainable Solutions Designing Water Resource Systems for Urban Environments
SUM	CEME 4005	Integrated Natural Hazard Risk Management			

NOTES

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Construction Management Major

Year 1				
S2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	DESST 1504 Representation I ☐
Year 2				
S1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	DESST 2518 Construction II ☐
S2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	Level I Engineering Elective (see elective table) ☐
Year 3				
S1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-Engineering ☐
S2	ENG 3005 Research Method & Project Management ☐	CEME 3003 Structural Steel Design ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S1	ENG 4001A Research Project Part A ☐	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S2	ENG 4001B Research Project Part B ☐	CEME 4050 Design Practice ☐	ENG 3303 Construction Management and Technologies ☐ ***(not available in 2022 - please contact the Director of Teaching)***	ENG 3304 Development and Construction ☐ ***(not available in 2022 - please contact the Director of Teaching)***
Year 5				
S1	CEME 3004 Hydrology for Engineers ☐	DESST 3514 Construction III ☐	ENG 3301 Construction Management and Technology I ☐ ***(not available in 2022 - please contact the Director of Teaching)***	ENG 3302 Cost Planning and Management ☐ ***(not available in 2022 - please contact the Director of Teaching)***

Core Courses	Major Courses	Elective

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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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics

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2022 Study Plan
Bachelor of Engineering (Honours) (Civil) – Semester 2 Start

Defence Systems Major

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective (see notes) ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see elective table) ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	ENG 3305 Human Factors for Decision Making ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-Engineering ☐
S 2	CEME 3007 Integrated Environment Planning and Impact Assessment ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S 1	ENG 3005 Research Method & Project Management ☐	POLIS 1104 Introduction to Comparative Politics ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S 2	ENG 4001A Research Project Part A ☐	CEME 4009 Decision Making for Sustainable Solutions ☐	ENG 4020 Complex Systems Engineering ☐	CEME 4050 Design Practice ☐
Year 5				
S 1	ENG 4001B Research Project Part B ☐	CEME 3004 Hydrology for Engineers ☐	ENG 3004 Systems Engineering and Industry Practice ☐	ENG 4010 Defence Leadership ☐

Core Courses	Major Courses	Elective

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

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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics

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Environmental Engineering Major

Year 1				
S2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective (see notes) ☐
Year 2				
S1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see elective table) ☐
S2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	CEME 2006 Climate & Environmental Change Impact Modelling ☐
Year 3				
S1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S2	CEME 4009 Decision Making for Sustainable Solutions ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S1	ENG 3005 Research Method & Project Management ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S2	ENG 4001A Research Project Part A ☐	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 4050 Design Practice ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐
Year 5				
SUM	CEME 4005 Integrated Natural Hazard Risk Management ☐			
S1	ENG 4001B Research Project Part B ☐	CHEM ENG 4051 Water and Wastewater Engineering ☐	CEME 4008 Soil and Ground Water Remediation ☐	

Core Courses	Major Courses	Elective

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

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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics

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Geotechnical Engineering Major

Year 1				
S2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective (see notes) ☐
Year 2				
S1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see elective table) ☐
S2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	General Elective *Suggestion: CEME 2006 Climate & Environmental Change Impact Modelling* ☐
Year 3				
S1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S1	ENG 4001A Research Project Part A ☐	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S2	ENG 4001B Research Project Part B ☐	CEME 4050 Design Practice ☐	GEOLOGY 2501 Structural Geology II ☐	Civil Engineering Elective (see elective table) ☐
Year 5				
S1	MINING 3076 Geomechanics & Excavation Engineering ☐	CEME 4007 Unsaturated Soils ☐	CEME 3004 Hydrology for Engineers ☐	CEME 4008 Soil and Ground Water Remediation ☐

Core Courses	Major Courses	Elective

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

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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CEME 4001 CEME 4002 CHEM ENG 4051	Advanced Reinforced Concrete Design Finite Element Theory and Practice Water and Wastewater Engineering	**S2**	CEME 4003 CEME 4006 CEME 4009 CEME 4010	Wind and Earthquake Engineering Climate Risk and Resilience Decision Making for Sustainable Solutions Designing Water Resource Systems for Urban Environments
SUM	CEME 4005	Integrated Natural Hazard Risk Management			

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Renewable Energy Major

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective (see notes) ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	ELEC ENG 4111 Distributed Generation Technologies ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-Engineering ☐
S 2	CEME 4050 Design Practice ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S 1	ENG 3005 Research Method & Project Management ☐	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S 2	ENG 4001A Research Project Part A ☐	CEME 3007 Integrated Environment Planning and Impact Assessment ☐	CEME 4009 Decision Making for Sustainable Solutions ☐	CHEM ENG 4048 Biofuels, Biomass and Wastes ☐
Year 5				
S 1	ENG 4001B Research Project Part B ☐	MECH ENG 4064 Renewable Power Technologies ☐	CEME 3004 Hydrology for Engineers ☐	Level 1 Engineering Elective (see elective table) ☐

Core Courses	Major Courses	Elective

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

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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics

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Smart Technologies Major

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	ENG 1002 Programming (Matlab and C) ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics- Statics ☐	COMP SCI 1102 Object Oriented Programming ☐	General Elective (see notes) ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	Level I Engineering Elective (see elective table) ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S 1	ENG 4001A Research Project Part A ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4050 Design Practice ☐	MECH ENG 3032 Micro-Controller Programming ☐	COMP SCI 4412 Secure Software Engineering ☐
Year 5				
S 1	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3004 Hydrology for Engineers ☐	COMP SCI 3001 Computer Networks & Applications ☐	COMP SCI 3305 Parallel and Distributed Computing ☐

Core Courses	Major Courses	Elective

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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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics

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Structural Engineering Major

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective (see notes) ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see elective table) ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	General Elective *Suggestion: CEME 2006 Climate & Environmental Change Impact Modelling* ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S 1	ENG 4001A Research Project Part A ☐	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4003 Wind and Earthquake Engineering ☐	CEME 4050 Design Practice ☐	Civil Engineering Elective (see elective table) ☐
Year 5				
S 1	CEME 3004 Hydrology for Engineers ☐	Civil Engineering Elective (see elective table) ☐	CEME 4002 Finite Element Theory and Practice ☐	CEME 4001 Advanced Reinforced Concrete Design ☐

Core Courses	Major Courses	Elective

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

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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CEME 4007 CEME 4008 CHEM ENG 4051	Unsaturated Soils Soil and Ground Water Remediation Water and Wastewater Engineering	**S2**	CEME 4006 CEME 4009 CEME 4010	Climate Risk and Resilience Decision Making for Sustainable Solutions Designing Water Resource Systems for Urban Environments
SUM	CEME 4005	Integrated Natural Hazard Risk Management			

NOTES

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Water Systems Major

Year 1				
S2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective (see notes) ☐
Year 2				
S1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see elective table) ☐
S2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	General Elective *Suggestion: CEME 2006 Climate & Environmental Change Impact Modelling* ☐
Year 3				
S1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-Engineering ☐
S2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
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 the note section below.				
Year 4				
S1	ENG 4001A Research Project Part A ☐	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐
S2	ENG 4001B Research Project Part B ☐	CEME 4006 Climate Risk and Resilience ☐	CEME 4050 Design Practice ☐	
Year 5				
SUM	CEME 4005 Integrated Natural Hazard Risk Management ☐			
S1	CEME 3004 Hydrology for Engineers ☐	CEME 4008 Soil and Ground Water Remediation ☐	Civil Engineering Elective (see elective table) ☐	Civil Engineering Elective (see elective table) ☐

Core Courses	Major Courses	Elective

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

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 CONMGNT 1000 CONMGNT 1001 MECH ENG 1007	Resources and Energy in a Circular Economy Civil Engineering Construction Materials Construction Estimation and Quantity Surveying Engineering Mechanics - Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CEME 4001 CEME 4002 CEME 4007 CHEM ENG 4051	Advanced Reinforced Concrete Design Finite Element Theory and Practice Unsaturated Soils Water and Wastewater Engineering	**S2**	CEME 4003 CEME 4009 CEME 4010	Wind and Earthquake Engineering Decision Making for Sustainable Solutions Designing Water Resource Systems for Urban Environments

NOTES

Internship: All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. Internships are self-sourced and further information can be found on the Engineering Internships web page: https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering.

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

Civil Engineering Minors

Minors are undertaken by taking 12 units of courses within one of the following streams to replace the electives offered within a major. If they are not listed on the previous pages, the courses below cannot contribute as Civil 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** **B**	SPATIAL 3020WT PROJMGMT 3030	GIS for Agriculture & Natural Resource III Project Logistics and Supply Chains
Semester 1			**Semester 2**		
C	DEVT 2100	Poverty and Social Development	**C** **D**	DEVT 2101 ENG 3201	Empowerment & Development: Community & Gender Essentials of Humanitarian Practice (TBC)

Entrepreneurship Minor

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

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