

Bachelor of Engineering (Honours)(Civil) – All Majors with Bachelor of Mathematical and Computer Sciences – Computer Science Major – Semester 2

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Bachelor of Engineering (Honours) (Civil) with Bachelor of Mathematical and Computer Sciences -
Computer Science Major – Semester 2 Start

Year 1				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	ENG 1001 Introduction to Engineering <input type="checkbox"/>	Level I Engineering Elective (see elective table) <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	General Elective <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	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	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 3003 Structural Steel Design <input type="checkbox"/>	CEME 3006 Geotechnical Engineering <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <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 elective table.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	General Elective <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
Year 6				



S 1	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>
Core Courses	Elective (see table)	Double Degree Courses		

^ **EAL:** 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 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation (not offered until 2022)	S2	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics Civil Engineering Construction Materials
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	S2	CEME 2006 CEME 3007 C&ENVENG 4109 C&ENVENG 4110	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
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			

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

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Bachelor of Engineering (Honours) (Civil) - Geotechnical Engineering Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2 Start

Year 1				
S	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	ENG 1001 Introduction to Engineering	ENG 1002 Programming (Matlab and C)
2				
Year 2				
S	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	Level I Engineering Elective (see table below)	COMP SCI 1102 Object Oriented Programming
S	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	COMP SCI 2103 Algorithm Design & Data Structures
2				
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	CEME 2001 Strength of Materials	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering
S	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	COMP SCI 2201 Algorithm & Data Structure Analysis
2				
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 elective table.				
Year 4				
S	ENG 3004 Systems Engineering and Industry Practice	CEME 3001 Computer Analysis of Structures and Structural Dynamics	CEME 3002 Reinforced Concrete Design	COMP SCI 2000 Computer Systems
S	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	General Elective	Civil Engineering Elective (see elective table)
2				
Year 5				
S	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	CEME 4007 Unsaturated Soils	MINING 4102 Mine Geotechnical Engineering
S	ENG 4001B Research Project Part B	Civil Engineering Elective (see elective table)	CEME 4008 Soil and Ground Water Remediation	COMP SCI 3006 Software Engineering & Project
2				
Year 6				
S	ENG 4011 Engineering Geology	Level III Computer Science Elective	Level III Computer Science Elective	Level III Computer Science Elective
1				



Core Courses	Major Courses	Double Degree Courses
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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation (not offered until 2022)	S2	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics Civil Engineering Construction Materials
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	S2	CEME 2006 CEME 3007 C&ENVENG 4109	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments
TBC	CEME 4009 CEME 4005 CEME 4006 CEME 4003 CEME 4001 CEME 4002 CEME 4004	Environmental Decision Making 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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Bachelor of Engineering (Honours) (Civil) - Structural Engineering Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2 Start

Year 1				
S	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	ENG 1001 Introduction to Engineering	General Elective
2				
Year 2				
S	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1002 Programming (Matlab and C)	Level I Engineering Elective (see table below)
S	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	COMP SCI 1102 Object Oriented Programming
2				
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	CEME 2001 Strength of Materials	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering
S	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	COMP SCI 2103 Algorithm Design & Data Structures
2				
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 elective table.				
Year 4				
S	ENG 3004 Systems Engineering and Industry Practice	CEME 3001 Computer Analysis of Structures and Structural Dynamics	CEME 3002 Reinforced Concrete Design	COMP SCI 2000 Computer Systems
S	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	General Elective	Civil Engineering Elective (see elective table)
2				
Year 5				
S	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	Level III Computer Science Elective	COMP SCI 2201 Algorithm & Data Structure Analysis
S	ENG 4001B Research Project Part B	Civil Engineering Elective (see elective table)	CEME 4002 Finite Element Theory and Practice	COMP SCI 3006 Software Engineering & Project
2				
Year 6				
S	CEME 4001 Advanced Reinforced Concrete Design	CEME 4003 Wind and Earthquake Engineering	Level III Computer Science Elective	Level III Computer Science Elective
1				



Core Courses	Major Courses	Elective (see elective table)	Double Degree Courses
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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation (not offered until 2022)	S2	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics Civil Engineering Construction Materials
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	S2	CEME 2006 CEME 3007 C&ENVENG 4109 C&ENVENG 4110	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
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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Bachelor of Engineering (Honours) (Civil) - Water Systems Major with
Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2 Start

Year 1				
S	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	ENG 1001 Introduction to Engineering	General Elective
2				
Year 2				
S	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1002 Programming (Matlab and C)	Level I Engineering Elective (see table below)
S	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	COMP SCI 1102 Object Oriented Programming
2				
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	CEME 2001 Strength of Materials	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering
S	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	COMP SCI 2103 Algorithm Design & Data Structures
2				
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 elective table.				
Year 4				
S	ENG 3004 Systems Engineering and Industry Practice	CEME 3002 Reinforced Concrete Design	CEME 3001 Computer Analysis of Structures and Structural Dynamics	COMP SCI 2000 Computer Systems
S	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	General Elective	Civil Engineering Elective (see elective table)
2				
Year 5				
S	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	Level III Computer Science Elective	COMP SCI 2201 Algorithm & Data Structure Analysis
S	ENG 4001B Research Project Part B	Civil Engineering Elective (see elective table)	CEME 4006 Advanced Hydrology and Flood Hydraulics	COMP SCI 3006 Software Engineering & Project
2				
Year 6				
S	CEME 4004	CEME 4005	Level III Computer Science Elective	Level III Computer Science Elective
1				



Advanced Water Distribution Systems Engineering		Advanced Hydrological Modelling & Water Resource Systems			
Core Courses	Major Courses	Elective (see elective table)	Double Degree Courses		

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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation (not offered until 2022)	S2	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics Civil Engineering Construction Materials
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	S2	CEME 2006 CEME 3007 C&ENVENG 4109 C&ENVENG 4110	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment 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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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.

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