

No Major	2
Climate Solutions Major	3
Renewable Energy Major	_
Smart Technologies Major	7



No Major

		Year 1									
S 1	MATHS 1011 Mathematics IA	ENG 1002 Programming (Matlab and C)	^ ENG 1001 Introduction to Engineering	CEME 1001 Introduction to Environmental Engineering							
S 2	MATHS 1012 Mathematics IB	ENV BIOL 1002 Ecological Issues I	CEME 1002 Introduction to Infrastructure	CEME 1003 Resources and Energy in a Circular Economy							
	Year 2										
S 1	MATHS 2106 Differential Equations for Engineers II	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering	#Level II or III Mathematics Elective							
S 2	MATHS 2107 Statistics & Numerical Methods II	CEME 2005 Transportation Engineering & Survey	CEME 2006 Climate & Environmental Change Impact Modelling	#Level II or III Mathematics Elective							
		Year 3									
S 1	ENG 3004 Systems Engineering and Industry Practice	CEME 3004 Hydrology for Engineers	GEOG 2129 Introductory Geographic Information Systems	CHEM ENG 2017 Transport Processes in the Environment							
S 2	ENG 3005 Research Method & Project Management	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3007 Integrated Environment Planning & Impact Assessment	#Level II or III Mathematics Elective							
		Internsh	ip								
	All Engineering students commencing fro	om 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	Environmental & Climate Solutions Elective – Set 1	Environmental & Climate Solutions Elective – Set 1	CEME 4008 Soil and Ground Water Remediation							
S 2	ENG 4001B Research Project Part B	CEME 4010 Designing Water Resource Systems for Urban Environments	CEME 4009 Environmental Decision Making	#Level II or III Mathematics Elective							



			Υ	ear 5'			
S 1	Environmental & Climate Solutions Elective – Set 2 (see elective table)		Environmental & Climate Solutions Elective – Set 2 (see elective table)		#Level III Mathematics Elective	#Level III Mathematics Elective	
S 2	Environmental & Climate Solutions Elective – Set 1 (see elective table)		Environmental & Climate Solutions Elective – Set 2 (see elective table)		#Level III Mathematics Elective	#Level III Mathematics Elective	
Cor	e Courses Double Degree Co	ourses	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 ENVIRONMEN	ITAL AND CL	IMATE SOLUTIONS E	ELECTIVES – SET 1
	GEOG 2139	Environmental Management		ENTREP 3000	Innovation and Creativity
				GEOG 2135	Urban Futures
S1			S2	GEOG 2142	Climate Change
			GEOLOGY 3502	Mineral and Energy Resources III	
				LAW 2511	Environmental Law
SUMMER	ENTREP 3000	Innovation and Creativity			
		CHOOSE FROM THE FOLLOWING ENVIRONMEN	ITAL AND CL	IMATE SOLUTIONS E	ELECTIVES – SET 2
64	ENTREP 3006	Energy Management, Economics and Policy	63	CEME 4006	Climate Risk and Resilience
S1	MINING 4104	Socio-Environmental Aspects of Mining	S2		
SUMMER	CEME 4005 Integrated Natural Hazard Risk Management		WINTER	ENTREP 3006	Energy Management, Economics and Policy

NOTES

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

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Information and Enrolment Advice:

Ask ECMS

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Climate Solutions Major

	Year 1										
S 1	MATHS 1011 Mathematics IA		ENG 1002 Programming (Matlab and C)		^ ENG 1001 Introduction to Engineering		CEME 1001 Introduction to Environmental Engineering				
S 2	MATHS 1012 Mathematics IB		ENV BIOL 1002 Ecological Issues I		CEME 1002 Introduction to Infrastructure		CEME 1003 Resources and Energy in a Circular Economy				
				Year 2							
S 1	MATHS 2106 Differential Equations for Engineers II		CEME 2003 Civil Engineering Hydraulics		CEME 2004 Introduction to Geo-engineering		#Level II or III Mathematics Elective				
S 2	MATHS 2107 Statistics & Numerical Methods II		CEME 2005 Transportation Engineering & Survey		CEME 2006 Climate & Environmental Change Impact Modelling		#Level II or III Mathematics Elective				
				Year 3							
S 1	ENG 3004 Systems Engineering and Industry Practice		GEOG 2129 Introductory Geographic Information Systems		CHEM ENG 2017 Transport Processes in the Environment		#Level II or III Mathematics Elective				
S 2	ENG 3005 Research Method & Project Management		CEME 3005 Advanced Civil Engineering Hydraulics		CEME 3007 Integrated Environment Planning & Impact Assessment		GEOG 2142 Climate Change				
			lnf	ternshi	ip						
	All Engineering students commencing	fror	m 2019 are required to complete a minimu	m of 8	weeks of <u>internship</u> during the course of t	heir s	studies – see the note section below.				
				Year 4							
S U M	CEME 4005 Integrated Natural Hazard Risk Management										
S 1	ENG 4001A Research Project Part A		CEME 3004 Hydrology for Engineers		Environmental & Climate Solutions Elective – Set 1 (see elective table)		#Level II or III Mathematics Elective				
S 2	ENG 4001B Research Project Part B		CEME 4006 Climate Risk and Resilience		CEME 4010 Designing Water Resource Systems for Urban Environments		CEME 4009 Decision Making for Sustainable Solutions				



				Year 5			
S 1	CEME 4008 Soil and Ground Wa	ter Remediation	Environmental & Climate Elective – Set 2 (see elective table)	Solutions	#Level III Mathematics Elective	#Level III Mathematics Elective	
S 2	5 2		Environmental & Climate Solutions Elective – Set 1		#Level III Mathematics Elective	#Level III Mathematics Elective	
Core Courses Double Degree Course		Double Degree Courses	Elective	Major Courses			

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		CHOOSE FROM THE FOLLOWING ENVIRONMEN	ITAL AND CL	IMATE SOLUTIONS E	ELECTIVES – SET 1
	GEOG 2139	Environmental Management		ENTREP 3000	Innovation and Creativity
				GEOG 2135	Urban Futures
S1			S2	GEOG 2142	Climate Change
				GEOLOGY 3502	Mineral and Energy Resources III
				LAW 2511	Environmental Law
SUMMER	ENTREP 3000	Innovation and Creativity			
		CHOOSE FROM THE FOLLOWING ENVIRONMEN	NTAL AND CL	IMATE SOLUTIONS E	LECTIVES – SET 2
61	ENTREP 3006	Energy Management, Economics and Policy	63		
S1	MINING 4104	Socio-Environmental Aspects of Mining	S2		
SUMMER	CEME 4005 Integrated Natural Hazard Risk Management		WINTER	ENTREP 3006	Energy Management, Economics and Policy

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Renewable Energy Major

			Y	'ear 1				
S 1	MATHS 1011 Mathematics IA		ENG 1002 Programming (Matlab and C)		^ ENG 1001 Introduction to Engineering		CEME 1001 Introduction to Environmental Engineering	
S 2	MATHS 1012 Mathematics IB		ENV BIOL 1002 Ecological Issues I		CEME 1002 Introduction to Infrastructure		CEME 1003 Resources and Energy in a Circular Economy	
			Y	ear 2				
S 1	MATHS 2106 Differential Equations for Engineers II		CEME 2003 Civil Engineering Hydraulics		CEME 2004 Introduction to Geo-engineering		ELEC ENG 1101 Electronic Systems	
S 2	MATHS 2107 Statistics & Numerical Methods II		CEME 2005 Transportation Engineering & Survey		CEME 2006 Climate & Environmental Change Impact Modelling		#Level II or III Mathematics Elective	
			Y	ear 3				
S 1	ENG 3004 Systems Engineering and Industry Practice		CEME 3004 Hydrology for Engineers		GEOG 2129 Introductory Geographic Information Systems		CHEM ENG 2017 Transport Processes in the Environment	
S 2	ENG 3005 Research Method & Project [Management		CEME 3005 Advanced Civil Engineering Hydraulics		CEME 3007 Integrated Environment Planning & Impact Assessment		#Level II or III Mathematics Elective	
			Inte	ernshi	p			
	All Engineering students commencing f	fron	n 2019 are required to complete a minimum	n of 8	weeks of <u>internship</u> during the course of t	:heir s	studies – see the note section below.	
			Υ	ear 4				
S 1	ENG 4001A Research Project Part A		Environmental & Climate Solutions Elective – Set 1 or 2 (see elective table)		CEME 4008 Soil and Ground Water Remediation		#Level II or III Mathematics Elective	
S 2	ENG 4001B Research Project Part B		CEME 4010 Designing Water Resource Systems for Urban Environments		CEME 4009 Decision Making for Sustainable Solutions		#Level II or III Mathematics Elective	



				Year!					
S 1	MECH ENG 4064 Renewable Power To	echnologies	Environmental & Climate Elective – Set 1 or 2 (see elective table)	-		Level III Mathematics Elective] #	#Level III Mathematics Elective	
S 2	CHEM ENG 4048 Biofuels, Biomass ar	nd Wastes	ELEC ENG 4111 Distributed Generation T	echnologies	#Le	Level III Mathematics Elective] #	#Level III Mathematics Elective	
Cor	e Courses	Double Degree Courses	Elective	Major Courses					•

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		CHOOSE FROM THE FOLLOWING ENVIRONMEN	ITAL AND CL	IMATE SOLUTIONS E	ELECTIVES – SET 1
	GEOG 2139	Environmental Management		ENTREP 3000	Innovation and Creativity
				GEOG 2135	Urban Futures
S1			S2	GEOG 2142	Climate Change
				GEOLOGY 3502	Mineral and Energy Resources III
				LAW 2511	Environmental Law
SUMMER	ENTREP 3000	Innovation and Creativity			
		CHOOSE FROM THE FOLLOWING ENVIRONMEN	ITAL AND CL	IMATE SOLUTIONS E	ELECTIVES – SET 2
S1	ENTREP 3006	Energy Management, Economics and Policy	S2	CEME 4006	Climate Risk and Resilience
31	MINING 4104	Socio-Environmental Aspects of Mining	32		
SUMMER	JMMER CEME 4005 Integrated Natural Hazard Risk Management		WINTER	ENTREP 3006	Energy Management, Economics and Policy

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Smart Technologies Major

			Υ	'ear 1				
S 1	MATHS 1011 Mathematics IA		ENG 1002 Programming (Matlab and C)		^ ENG 1001 Introduction to Engineering		CEME 1001 Introduction to Environmental Engineering	
S 2	MATHS 1012 Mathematics IB		ENV BIOL 1002 Ecological Issues I		CEME 1002 Introduction to Infrastructure		CEME 1003 Resources and Energy in a Circular Economy	
			Υ	ear 2				
S 1	MATHS 2106 Differential Equations for Engineers II		CEME 2003 Civil Engineering Hydraulics		CEME 2004 Introduction to Geo-engineering		#Level II or III Mathematics Elective	
S 2	MATHS 2107 Statistics & Numerical Methods II		CEME 2005 Transportation Engineering & Survey		CEME 2006 Climate & Environmental Change Impact Modelling		COMP SCI 1102 Object Oriented Programming	
			Υ	ear 3				_
S 1	ENG 3004 Systems Engineering and Industry Practice		CEME 3004 Hydrology for Engineers		GEOG 2129 Introductory Geographic Information Systems		CHEM ENG 2017 Transport Processes in the Environment	
S 2	ENG 3005 Research Method & Project Management		CEME 3005 Advanced Civil Engineering Hydraulics		CEME 3007 Integrated Environment Planning & Impact Assessment		COMP SCI 2103 Algorithm Design & Data Structures	
			Inte	ernshi	p			
	All Engineering students commencing f	fron	n 2019 are required to complete a minimun	n of 8	weeks of internship during the course of t	heirs	studies – see the note section below.	
			Υ	ear 4				
S 1	ENG 4001A Research Project Part A		Environmental & Climate Solutions Elective – Set 2 (see elective table)		#Level II or III Mathematics Elective		#Level II or III Mathematics Elective	
S 2	ENG 4001B Research Project Part B		MECH ENG 3032 Micro-Controller Programming		CEME 4010 Designing Water Resource Systems for Urban Environments		CEME 4009 Decision Making for Sustainable Solutions	



				Year 5			
S 1	COMP SCI 3001 Computer Networks	& Applications	CEME 4008 Soil and Ground Water R	emediation	#Level II or III Mathematics Elective	#Level III Mathematics Elective	
S 2	COMP SCI 4412 Secure Software Eng	gineering	#Level III Mathematics El	ective	#Level III Mathematics Elective	#Level III Mathematics Elective	
Core Courses Double Degree Courses		Elective	Major Courses				

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CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2					
S1	ENTREP 3006 MINING 4104	Energy Management, Economics and Policy Socio-Environmental Aspects of Mining	S2	CEME 4006	Climate Risk and Resilience
SUMMER	CEME 4005	Integrated Natural Hazard Risk Management	WINTER	ENTREP 3006	Energy Management, Economics and Policy

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