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# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

No Major

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	CEME 1003 Resources and Energy in a Circular Economy <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	CEME 2006 Climate & Environmental Change Impact Modelling <input type="checkbox"/>	CEME 2005 Transportation Engineering and Survey <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 1 (see elective table) <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	CEME 2004 Introduction to Geo-engineering <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 1 (see elective table) <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of <a href="#">internship</a> during the course of their studies – see the note section below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 1 (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4009 Decision Making for Sustainable Solutions <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 2 (see elective table) <input type="checkbox"/>
Year 5				
S 1	GEOG 2129 Introductory Geographic Information Systems <input type="checkbox"/>	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 2 (see elective table) <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 2 (see elective table) <input type="checkbox"/>
Core Courses		Elective		

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# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 1					
S1	GEOG 2139	Environmental Management	S2	ENTREP 3000 GEOG 2135 GEOG 2142 GEOLOGY 3502	Innovation and Creativity Urban Futures Climate Change Mineral and Energy Resources III
SUMMER	ENTREP 3000	Innovation and Creativity			
CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2					
S1	ECON 3500 ENTREP 3006 MINING 4117	Resource and Environmental Economics III Energy Management, Economics and Policy Mining and Environment	S2	CEME 4006	Climate Risk and Resilience
SUMMER	CEME 4005	Integrated Natural Hazard Risk Management	WINTER	ENTREP 3006	Energy Management, Economics and Policy

#### NOTES

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# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

### Climate Solutions Major

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

# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

Year 5			
S1	Environmental & Climate Solutions Elective – Set 1 (see elective table) <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 1 (see elective table) <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 2 (see elective table) <input type="checkbox"/>
			CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>
Core Courses	Major Courses	Elective	

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CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 1					
S1	GEOG 2139	Environmental Management	S2	ENTREP 3000 GEOG 2135 GEOG 2142 GEOLOGY 3502	Innovation and Creativity Urban Futures Climate Change Mineral and Energy Resources III
SUMMER	ENTREP 3000	Innovation and Creativity			
CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2					
S1	ECON 3500 ENTREP 3006 MINING 4117	Resource and Environmental Economics III Energy Management, Economics and Policy Mining and Environment	S2		
SUMMER	CEME 4005	Integrated Natural Hazard Risk Management	WINTER	ENTREP 3006	Energy Management, Economics and Policy

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# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

### Renewable Energy Major

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	CEME 1003 Resources and Energy in a Circular Economy <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	CEME 2005 Transportation Engineering and Survey <input type="checkbox"/>	CEME 2006 Climate & Environmental Change Impact Modelling <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	CEME 2004 Introduction to Geo-engineering <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4009 Decision Making for Sustainable Solutions <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of <a href="#">internship</a> during the course of their studies – see the note section below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <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"/>	ELEC ENG 4111 Distributed Generation Technologies <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
Year 5				
S 1	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 1 or 2 (see elective table) <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 1 or 2 (see elective table) <input type="checkbox"/>
Core Courses		Major Courses		Elective

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# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 1					
S1	GEOG 2139	Environmental Management	S2	ENTREP 3000 GEOG 2135 GEOG 2142 GEOLOGY 3502	Innovation and Creativity Urban Futures Climate Change Mineral and Energy Resources III
SUMMER	ENTREP 3000	Innovation and Creativity			
CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2					
S1	ECON 3500 ENTREP 3006 MINING 4117	Resource and Environmental Economics III Energy Management, Economics and Policy Mining and Environment	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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# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

### Smart Technologies Major

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	CEME 1003 Resources and Energy in a Circular Economy <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	CEME 2005 Transportation Engineering and Survey <input type="checkbox"/>	CEME 2006 Climate & Environmental Change Impact Modelling <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CEME 2004 Introduction to Geo-Engineering <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	CEME 4009 Decision Making for Sustainable Solutions <input type="checkbox"/>
Internship				
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Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	COMP SCI 4412 Secure Software Engineering <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
Year 5				
S 1	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <input type="checkbox"/>	Environmental & Climate Solutions Elective – Set 2 (see elective table) <input type="checkbox"/>
Core Courses		Major Courses		Elective

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# 2022 Study Plan

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions)

### Semester 2 Start

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL AND CLIMATE SOLUTIONS ELECTIVES – SET 2					
<b>S1</b>	ECON 3500 ENTREP 3006 MINING 4117	Resource and Environmental Economics III Energy Management, Economics and Policy Mining and Environment	<b>S2</b>	CEME 4006	Climate Risk and Resilience
<b>SUMMER</b>	CEME 4005	Integrated Natural Hazard Risk Management	<b>WINTER</b>	ENTREP 3006	Energy Management, Economics and Policy

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

### Entrepreneurship Minor

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

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