



THE UNIVERSITY  
of ADELAIDE

# Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

**Bachelor of Engineering (Honours)(Environmental) – All Majors**

Semester 2 Start

[Bachelor of Engineering \(Honours\)\(Environmental\)](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) – Renewable Energy Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) – Smart Technologies Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) – Defence Systems Major](#)

## Bachelor of Engineering (Honours) (Environmental) – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	Environmental Engineering Elective (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 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
S1	DESST 2517 Environment II <input type="checkbox"/>	GEOG 2135 Urban Futures <input type="checkbox"/>	GEOG 2139 Environmental Management <input type="checkbox"/>	LAW 2511 Environmental Law <input type="checkbox"/>
S2	GEOG 2142 Climate Change <input type="checkbox"/>	GEOLOGY 3502 Mineral & Energy Resources <input type="checkbox"/>		
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>		

### NOTES

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

# **Maths:** Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

**Internships:** 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. Enrolment into 6 unit internship course opens from S1 2021. 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>

### Information and Enrolment Advice:

Ask ECMS

Email: [askecms@adelaide.edu.au](mailto:askecms@adelaide.edu.au)

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

## Bachelor of Engineering (Honours) (Environmental) - Renewable Energy Major - Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	Environmental Engineering Elective (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 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <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 3111 Distributed Generation Technologies <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	CEME 4009 Environmental Decision Making <input type="checkbox"/>	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
S1	DESST 2517 Environment II <input type="checkbox"/>	GEOG 2135 Urban Futures <input type="checkbox"/>	LAW 2511 Environmental Law <input type="checkbox"/>	
S2	GEOG 2142 Climate Change <input type="checkbox"/>	GEOLOGY 3502 Mineral & Energy Resources <input type="checkbox"/>		
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/>	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>	
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>			

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Environmental) - Smart Technologies Major  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <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 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 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <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 4812 Secure Software Engineering <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	COMP SCI 3001 Computer Networks & App <input type="checkbox"/>	COMP SCI 3305 Parallel and Distributed Systems <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

### CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES

TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>	CEME 4009 Environmental Decision Making	

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Environmental) - Defence Systems Major  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	Environmental Engineering Elective (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 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ENG 3305 Human Factors for Decision Making <input type="checkbox"/>	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	CEME 4010 Defence Leadership <input type="checkbox"/>
Year 5				
S 1	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## Electives Table

### CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES

TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>		

### NOTES

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**# Maths:** Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

**Internships:** 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. Enrolment into 6 unit internship course opens from S1 2021. 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:

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Arts  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	ARTS 1007 The Enquiring Mind <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 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	~Arts Elective <input type="checkbox"/>	~Arts Elective <input type="checkbox"/>
Year 5				
S 1	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	~Arts Elective <input type="checkbox"/>
S 2	~Arts Elective <input type="checkbox"/>	~Arts Elective <input type="checkbox"/>	~Level III Arts Major Capstone Course (6 units) <input type="checkbox"/>	
Year 6				



S 1	~Level II Arts Elective <input type="checkbox"/>	~Arts Elective <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
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Core Courses	Double Degree Courses
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## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
S1	DESST 2517 Environment II <input type="checkbox"/>	GEOG 2135 Urban Futures <input type="checkbox"/>	GEOG 2139 Environmental Management <input type="checkbox"/>	LAW 2511 Environmental Law <input type="checkbox"/>
S2	GEOG 2142 Climate Change <input type="checkbox"/>	GEOLOGY 3502 Mineral & Energy Resources <input type="checkbox"/>		
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>		

### NOTES

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

# **Maths:** Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

~**Arts:** Students must complete a major in accordance with the academic program rules for the Bachelor of Arts: <https://calendar.adelaide.edu.au/faculty/arts>

**Internships:** 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. Enrolment into 6 unit internship course opens from S1 2021. 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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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Science  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	~Level I Science Elective <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"/>	~Level I Science Elective <input type="checkbox"/>
S 2	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	~Level II Science Elective <input type="checkbox"/>	~Level II Science Elective <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	~Level II Science Elective <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	~Level II Science Elective <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	~Level III Science Elective <input type="checkbox"/>	~Level III Science Elective <input type="checkbox"/>	~Level III Science Elective <input type="checkbox"/>
Year 6				



S 1	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	~Level III Science Elective <input type="checkbox"/>	~Level III Science Elective <input type="checkbox"/>	~Level III Science Elective <input type="checkbox"/>
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Core Courses	Double Degree Courses
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## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
S1	DESST 2517 Environment II <input type="checkbox"/>	GEOG 2135 Urban Futures <input type="checkbox"/>	GEOG 2139 Environmental Management <input type="checkbox"/>	LAW 2511 Environmental Law <input type="checkbox"/>
S2	GEOG 2142 Climate Change <input type="checkbox"/>	GEOLOGY 3502 Mineral & Energy Resources <input type="checkbox"/>		
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>		

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~**Science:** Students must complete a major in accordance with the academic program rules for the Bachelor of Science: <https://calendar.adelaide.edu.au/faculty/sciences>

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

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Finance  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	ECON 1012 Principles in Economics I <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets <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	CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CORPFIN 1002 Business Finance <input type="checkbox"/>	ECON 2508 Financial Economics <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	CORPFIN 2502 Business Valuation <input type="checkbox"/>	ACCTING 1002 Introductory Accounting <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management <u>OR</u> MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>



Year 6			
S1	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II or MATHS 2103 Probability & Statistics II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
			Level III Finance Elective <input type="checkbox"/>

Core Courses    Double Degree Courses

## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES			
S1	DESST 2517 Environment II <input type="checkbox"/>	GEOG 2135 Urban Futures <input type="checkbox"/>	GEOG 2139 Environmental Management <input type="checkbox"/>
S2	GEOG 2142 Climate Change <input type="checkbox"/>	GEOLOGY 3502 Mineral & Energy Resources <input type="checkbox"/>	LAW 2511 Environmental Law <input type="checkbox"/>
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/>	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>	CEME 4007 Unsaturated Soils <input type="checkbox"/>

### NOTES

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

**# Maths:** Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

**Internships:** 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. Enrolment into 6 unit internship course opens from S1 2021. 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>

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

**Bachelor of Engineering (Honours)(Environmental) – All Majors with Bachelor of Mathematical and Computer Sciences - Mathematics Major**

Semester 2 Start

[Bachelor of Engineering \(Honours\)\(Environmental\) with Bachelor of Mathematical and Computer Sciences - Mathematics Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) - Defence Systems Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) - Smart Technologies Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) - Renewable Energy Major with Bachelor of Mathematical and Computer Sciences - Mathematics Major](#)



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

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	Level II or III Mathematics Elective <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"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <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 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>

Year 6				
S1	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>

Core Courses

Double Degree Courses

## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
S1	DESST 2517 Environment II <input type="checkbox"/>	GEOG 2135 Urban Futures <input type="checkbox"/>	GEOG 2139 Environmental Management <input type="checkbox"/>	LAW 2511 Environmental Law <input type="checkbox"/>
S2	GEOG 2142 Climate Change <input type="checkbox"/>	GEOLOGY 3502 Mineral & Energy Resources <input type="checkbox"/>		
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>		

### NOTES

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

**# Maths:** Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

**Internships:** 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. Enrolment into 6 unit internship course opens from S1 2021. 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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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Environmental) - Defence Systems Major with Bachelor of  
Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	<sup>^</sup> 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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	Level II or III Mathematics Elective <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"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	ENG 3305 Human Factors for Decision Making <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	CEME 3007 Integrated Environment Planning and Impact Assessment <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ENG 4010 Defence Leadership <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>



Year 6				
S 1	CEME 4009 Environmental Decision Making <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>		

### NOTES

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

**# Maths:** Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

**Internships:** 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. Enrolment into 6 unit internship course opens from S1 2021. 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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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Environmental) - Smart Technologies Major with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <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 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CEME 2004 Introduction to Geo-engineering <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	COMP SCI 4812 Secure Software Engineering <input type="checkbox"/>	COMP SCI 3305 Parallel and Distributed Computing <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Year 6				



S 1	COMP SCI 3001 Computer Networks & App <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
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Core Courses	Major Courses	Double Degree Courses
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### NOTES

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

**# Maths:** Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

**Internships:** 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. Enrolment into 6 unit internship course opens from S1 2021. 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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Bachelor of Engineering (Honours) (Environmental) - Renewable Energy Major with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	Level II or III Mathematics Elective <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"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technologies <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Year 6				



S 1	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
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Core Courses	Major Courses	Double Degree Courses
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## Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/>	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>
	GEOG 2135 Urban Futures	GEOG 2142 Climate Change	DESST 2517 Environment II	LAW 2511 Environmental Law
	GEOLOGY 3502 Mineral & Energy Resources			

### NOTES

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>



**Bachelor of Engineering (Honours)(Environmental) – All Majors with Bachelor of Mathematical and Computer Sciences – Computer Science Major**

Semester 2 Start

[Bachelor of Engineering \(Honours\)\(Environmental\) with Bachelor of Mathematical and Computer Sciences – Computer Science Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) - Defence Systems Major with Bachelor of Mathematical and Computer Sciences – Computer Science Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) - Smart Technologies Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\)\(Environmental\) - Renewable Energy Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

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

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <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 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 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	COMP SCI 2000 Computer Systems <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 (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	Level II or III Computer Science Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>
Year 6				



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

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <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 4007 Unsaturated Soils <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>		
	GEOG 2135 Urban Futures	GEOG 2142 Climate Change	DESST 2517 Environment II	LAW 2511 Environmental Law
	GEOLOGY 3502 Mineral & Energy Resources	GEOG 2139 Environmental Management		

### NOTES

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**Program Rules:** For academic program rules please refer to the following website:  
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### Information and Enrolment Advice:

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

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <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 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 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	COMP SCI 2000 Computer Systems <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 (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	ENG 3305 Human Factors for Decision Making <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	Environmental Engineering Elective (see elective table) <input type="checkbox"/>	CEME 3007 Integrated Environment Planning and Impact Assessment <input type="checkbox"/>	Level II or III Computer Science Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	ENG 4010 Defence Leadership <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>

Year 6			
S 1	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>
			Level III Computer Science Elective <input type="checkbox"/>

Core Courses	Major Courses	Double Degree Courses
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### Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES			
TBC	CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/>	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>
	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics and Policy <input type="checkbox"/>	CEME 4007 Unsaturated Soils <input type="checkbox"/>

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

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 Environmental Modelling and Simulation <input type="checkbox"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <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 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 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	COMP SCI 2000 Computer Systems <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 (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	COMP SCI 4812 Secure Software Engineering <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 4009 Environmental Decision Making <input type="checkbox"/>	Level II or III Computer Science Elective <input type="checkbox"/>	Level II or III Computer Science Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>



Year 6			
S 1	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	COMP SCI 3305 Parallel and Distributed Computing <input type="checkbox"/>	COMP SCI 3001 Computer Networks & App <input type="checkbox"/> Level III Computer Science Elective <input type="checkbox"/>

Core Courses	Major Courses	Double Degree Courses
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Bachelor of Engineering (Honours) (Environmental) - Renewable Energy Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	GEOG 2129 Introductory Geographic Information Systems <b>contact Ask ECMS</b> <input type="checkbox"/>	CEME 2006 Environmental Modelling and Simulation <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 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	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	COMP SCI 2000 Computer Systems <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 (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	Environmental Engineering Elective (see table below) <input type="checkbox"/>	Environmental Engineering Elective (see table below) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technologies <input type="checkbox"/>	CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>



Year 6			
S 1	CEME 4009 Environmental Decision Making <input type="checkbox"/>	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	Level III Computer Science Elective <input type="checkbox"/>
			Level III Computer Science Elective <input type="checkbox"/>

Core Courses	Major Courses	Double Degree Courses
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	GEOG 2135 Urban Futures <input type="checkbox"/>	GEOG 2142 Climate Change <input type="checkbox"/>	DESST 2517 Environment II <input type="checkbox"/>
	GEOLOGY 3502 Mineral & Energy Resources <input type="checkbox"/>	GEOG 2139 Environmental Management <input type="checkbox"/>	ENTREP 3000 Innovation and Creativity <input type="checkbox"/>
			LAW 2511 Environmental Law <input type="checkbox"/>

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