Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

School of Civil, Environmental & Mining Engineering

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

Semester 1 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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Bachelor of Engineering (Honours) (Environmental)

Year 1				
S 1	#MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2006 Environmental Modelling and Simulation ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	Environmental Engineering Elective (see elective table) ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐
S 2	ENG 4001B Research Project Part B ☐	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐

Core Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) - Renewable Energy Major

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2006 Environmental Modelling and Simulation ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	Environmental Engineering Elective (see elective table) ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	ELEC ENG 1101 Electronic Systems ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	MECH ENG 4064 Renewable Power Technologies ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐
S 2	ENG 4001B Research Project Part B ☐	ELEC ENG 4111 Distributed Generation Technologies ☐	CHEM ENG 4048 Biofuels, Biomass and Wastes ☐	Environmental Engineering Elective (see elective table) ☐

Core Courses	Major Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

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

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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) - Smart Technologies Major

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2006 Environmental Modelling and Simulation ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐
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 ☐	COMP SCI 3001 Computer Networks & Applications ☐	CEME 3004 Hydrology for Engineers ☐	COMP SCI 3305 Parallel and Distributed Systems. ☐
S 2	ENG 4001B Research Project Part B ☐	MECH ENG 3032 Micro-Controller Programming ☐	COMP SCI 4812 Secure Software Engineering ☐	Engineering Elective (see elective table) ☐

Core Courses	Major Courses

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
TBC	CEME 4004 Advanced Water Distribution Systems Engineering ☐	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems ☐	CEME 4006 Advanced Hydrology and Flood Hydraulics ☐	CEME 4007 Unsaturated Soils ☐
	ENTREP 3000 Innovation and Creativity ☐	ENTREP 3006 Energy Management, Economics and Policy ☐	CEME 4009 Environmental Decision Making	

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

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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) - Defence Systems Major

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2006 Environmental Modelling and Simulation ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	Engineering Elective (see elective table) ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	POLIS 1104 Introduction to Comparative Politics ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	Engineering Elective (see elective table) ☐
S 2	ENG 4001B Research Project Part B ☐	ENG 3305 Human Factors for Decision Making ☐	ENG 4020 Complex Systems Engineering ☐	ENG 4010 Defence Leadership ☐

Core Courses	Major Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Electives Table

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

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

Information and Enrolment Advice:
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Email: askecms@adelaide.edu.au
Website: https://ecms.adelaide.edu.au/study-with-us/student-support

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Arts – no majors available

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Arts

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2006 Environmental Modelling and Simulation ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	ARTS 1007 The Enquiring Mind ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	Engineering Elective (see elective table) ☐	Arts Elective Level II ☐
S 2	ENG 4001B Research Project Part B ☐	Engineering Elective (see elective table) ☐	Engineering Elective (see elective table) ☐	~Arts Major Course ☐
Year 5				
S 1	Engineering Elective (see elective table) ☐	~Arts Major Course ☐	~Arts Major Course ☐	~Arts Major Course ☐
S 2	~Arts Major Course ☐	~Arts Major Course ☐	~Arts Major Course ☐	~Arts Major Course ☐

Core Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

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

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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Science – no majors available

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Science

Year 1				
S 1	#MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^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 I Science Elective ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2006 Environmental Modelling and Simulation ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	~Level I Science Elective ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	~Level II Science Elective ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	~Level II Science Elective ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	~Level II Science Elective ☐	~Level II Science Elective ☐
Year 5				
S 1	Engineering Elective (see elective table) ☐	~Level III Science Elective ☐	~Level III Science Elective ☐	~Level III Science Elective ☐
S 2	Engineering Elective (see elective table) ☐	~Level III Science Elective ☐	~Level III Science Elective ☐	~Level III Science Elective ☐

Core Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

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.

~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

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 Finance – no majors available

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Finance

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	ECON 1012 Principles in Economics I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	CORPFIN 1002 Business Finance ☐	ACCTING 1002 Introductory Accounting ☐
S 2	CEME 2006 Environmental Modelling and Simulation ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CORPFIN 2502 Business Valuation ☐	ECON 2508 Financial Economics ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	CORPFIN 2501 Financial Institutions Management ☐
S 2	ENG 3005 Research Method & Project Management ☐	Engineering Elective (see elective table) ☐	CORPFIN 3501 Portfolio Theory & Management ☐	CORPFIN 3502 Options, Futures & Risk Management or MATHS 3012 Financial Modelling ☐
Year 5				
S 1	ENG 4001A Research Project Part A ☐	ECON 2504 Intermediate Econometrics II or MATHS 2103 Probability & Statistics II ☐	Level III Finance Elective ☐	Level III Finance Elective ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	Engineering Elective (see elective table) ☐

Core Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

NOTES

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Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

School of Civil, Environmental & Mining Engineering

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

Semester 1 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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Bachelor of Engineering (Honours) (Environmental) with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	Level II or III Mathematics Elective ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	Level II or III Mathematics Elective ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	Level II or III Mathematics Elective ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐
Year 5				
S 1	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S 2	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Core Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

NOTES

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THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	Level II or III Mathematics Elective ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CHEM ENG 2017 Transport Processes in the Environment ☐	POLIS 1104 Introduction to Comparative Politics ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	Level II or III Mathematics Elective ☐
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 ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	Environmental Engineering Elective (see elective table) ☐
S 2	ENG 4001B Research Project Part B ☐	ENG 3305 Human Factors in Decision Making ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	Level II or III Mathematics Elective ☐
Year 5				
S 1	CEME 4009 Environmental Decision Making ☐	Environmental Engineering Elective (see elective table) ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S 2	ENG 4020 Complex Systems Engineering ☐	ENG 4010 Defence Leadership ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Core Courses	Major Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

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THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	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 ☐	Level II or III Mathematics Elective ☐
Year 5				
S 1	COMP SCI 3001 Computer Networks & Applications ☐	COMP SCI 3305 Parallel and Distributed Computing ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S 2	Level II or III Mathematics Elective ☐	COMP SCI 4812 Secure software Engineering ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Core Courses	Major Courses	Double Degree Courses

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

NOTES

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THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

Year 1				
S 1	#MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^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 ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	Level II or III Mathematics Elective ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CHEM ENG 2017 Transport Processes in the Environment ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	Level II or III Mathematics Elective ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	Level II or III Mathematics Elective ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	Environmental Engineering Elective (see elective table) ☐	Level II or III Mathematics Elective ☐
Year 5				
S 1	MECH ENG 4064 Renewable Power Technologies ☐	Environmental Engineering Elective (see elective table) ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐
S 2	CHEM ENG 4048 Biofuels, Biomass and Wastes ☐	ELEC ENG 4111 Distributed Generation Technologies ☐	Level III Mathematics Elective ☐	Level III Mathematics Elective ☐

Core Courses	Major Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

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Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

School of Civil, Environmental & Mining Engineering

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

Semester 1 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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Bachelor of Engineering (Honours) - Environmental with Bachelor of Mathematical and Computer Sciences - Computer Science Major

Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐
Internship				
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Year 4				
S 1	ENG 4001A Research Project Part A ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	COMP SCI 2000 Computer Systems ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4008 Soil and Groundwater Remediation ☐	Environmental Engineering Elective (see elective table) ☐	COMP SCI 3006 Software Engineering & Project ☐
Year 5				
S 1	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐	Level III Computer Science Elective ☐
S 2	Environmental Engineering Elective (see elective table) ☐	Environmental Engineering Elective (see elective table) ☐	Level III Computer Science Elective ☐	Level III Computer Science Elective ☐

Core Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

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

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Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	POLIS 1104 Introduction to Comparative Politics	COMP SCI 2103 Algorithm Design & Data Structures ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐
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 ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	Environmental Engineering Elective (see elective table) ☐	COMP SCI 2000 Computer Systems ☐
S 2	ENG 4001B Research Project Part B ☐	ENG 3305 Human Factors in Decision Making ☐	CEME 4008 Soil and Groundwater Remediation ☐	COMP SCI 3006 Software Engineering & Project ☐
Year 5				
S 1	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	Environmental Engineering Elective (see elective table) ☐	Level III Computer Science Elective ☐
S 2	ENG 4020 Complex Systems Engineering ☐	ENG 4010 Defence Leadership ☐	Level III Computer Science Elective ☐	Level III Computer Science Elective ☐

Core Courses	Major Courses	Double Degree Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
TBC	CEME 4004 Advanced Water Distribution Systems Engineering ☐	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems ☐	CEME 4006 Advanced Hydrology and Flood Hydraulics ☐	CEME 4007 Unsaturated Soils ☐
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Year 1				
S 1	# MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^ 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 ☐	CHEM ENG 2017 Transport Processes in the Environment ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	COMP SCI 2000 Computer Systems ☐
S 2	ENG 4001B Research Project Part B ☐	MECH ENG 3032 Micro-Controller Programming ☐	COMP SCI 4812 Secure Software Engineering ☐	COMP SCI 3006 Software Engineering & Project ☐
Year 5				
S 1	COMP SCI 3001 Computer Networks & Applications ☐	COMP SCI 3305 Parallel and Distributed Computing ☐	Level II or III Computer Science Elective ☐	Level III Computer Science Elective ☐
S 2	Level II or III Computer Science Elective ☐	CEME 4008 Soil and Groundwater Remediation ☐	Level III Computer Science Elective ☐	Level III Computer Science Elective ☐

Core Courses	Major Courses	Double Degree Courses

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Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

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Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

Year 1				
S 1	#MATHS 1011 Mathematics IA ☐	ENG 1003 Programming (Matlab and Excel) ☐	^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 ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	GEOG 2129 Introductory Geographic Information Systems **contact Ask ECMS** ☐	CEME 2006 Environmental Modelling and Simulation ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3004 Hydrology for Engineers ☐	CHEM ENG 2017 Transport Processes in the Environment ☐	CEME 3007 Integrated Environment Planning & Impact Assessment ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 4008 Soil and Groundwater Remediation ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐
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 ☐	CEME 4009 Environmental Decision Making ☐	CHEM ENG 4051 Water & Wastewater Engineering ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐
S 2	ENG 4001B Research Project Part B ☐	CEME 4010 Designing Water Resource Systems for Urban Environments ☐	Environmental Engineering Elective (see elective table) ☐	COMP SCI 2000 Computer Systems ☐
Year 5				
S 1	MECH ENG 4064 Renewable Power Technologies ☐	Environmental Engineering Elective (see elective table) ☐	COMP SCI 3006 Software Engineering & Project ☐	Level III Computer Science Elective ☐
S 2	CHEM ENG 4048 Biofuels, Biomass and Wastes ☐	ELEC ENG 4111 Distributed Generation Technologies ☐	Level III Computer Science Elective ☐	Level III Computer Science Elective ☐

Core Courses	Major Courses	Double Degree Courses

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Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Electives Table

CHOOSE FROM THE FOLLOWING ENVIRONMENTAL ENGINEERING ELECTIVES				
TBC	CEME 4004 Advanced Water Distribution Systems Engineering ☐	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems ☐	CEME 4006 Advanced Hydrology and Flood Hydraulics ☐	ENTREP 3000 Innovation and Creativity ☐
	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 ☐		

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