THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

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

Semester 2 Start

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

Year 1				
S 1				
S 2	#MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	^ ENG 1001 Introduction to Engineering	Level I Engineering Elective (see elective table)
Year 2				
S 1	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1003 Programming (Matlab and Excel)	General Elective
S 2	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	COMP SCI 1102 Object Oriented Programming
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II	CEME 2001 Strength of Materials	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering
S 2	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	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 3004 Interdisciplinary Professional Practice	CEME 3002 Reinforced Concrete Design	CEME 3001 Computer Analysis of Structures and Structural Dynamics	COMP SCI 2000 Computer Systems
S 2	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	General Elective	Civil Engineering Elective (see elective table)
Year 5				
S 1	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	Level III Computer Science Elective	COMP SCI 2201 Algorithm & Data Structure Analysis
S 2	ENG 4001B Research Project Part B	Civil Engineering Elective (see elective table)	Civil Engineering Elective (see elective table)	COMP SCI 3006 Software Engineering & Project

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Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Year 6				
S1	Civil Engineering Elective (see elective table) ☐	Civil Engineering Elective (see elective table) ☐	Level III Computer Science Elective ☐	Level III Computer Science Elective ☐

Core Courses | Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL I ENGINEERING ELECTIVES				
S1	CEME 1001 Introduction to Environmental Engineering ☐	CHEM ENG 1007 Introduction to Process Engineering ☐	ELEC ENG 1101 Electronic Systems ☐	
S2	CEME 1003 Resources and Energy in an Circular Economy ☐	MECH ENG 1007 Mechanical Engineering ☐		
CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
S1	CHEM ENG 4051 Water and Wastewater Engineering ☐			
S2	C&ENVENG 4107 Prestressed Concrete Structures ☐			
TBC	CEME 4001 Advanced Reinforced Concrete Design ☐	CEME 4002 Finite Element Theory and Practice ☐	CEME 4003 Wind and Earthquake Engineering ☐	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 ☐	CEME 4008 Soil and Groundwater Remediation ☐
	CEME 4009 Environmental Decision Making ☐	CEME 4010 Designing Water Resource Systems for Urban Environment ☐	ENG 4011 Engineering Geology ☐	

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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Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

Year 1				
S 2	#MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	CEME 2005 Transportation Engineering & Surveying ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	DESST 2518 Construction II ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	DESST 1504 Representation I ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S 2	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐	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 3004 Interdisciplinary Professional Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics	ENG 3302 Cost Planning and Management ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 4050 Design Practice ☐	Level II or III Computer Science Elective ☐	COMP SCI 2000 Computer Systems ☐
Year 5				
S 1	ENG 4001A Research Project Part A ☐	CEME 3004 Hydrology for Engineers ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐	CEME 3004 Hydrology for Engineers ☐
S 2	ENG 4001B Research Project Part B ☐	ENG 3303 Construction Management and Technologies ☐	ENG 3304 Development and Construction ☐	COMP SCI 3006 Software Engineering & Project ☐
Year 6				
S 1	DESST 3514 Construction III ☐	ENG 3301 Construction Management and Technology I ☐	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 LEVEL I ENGINEERING ELECTIVES				
S1	CEME 1001 Introduction to Environmental Engineering ☐	CHEM ENG 1007 Introduction to Process Engineering ☐	ELEC ENG 1101 Electronic Systems ☐	
S2	CEME 1003 Resources and Energy in an Circular Economy ☐	MECH ENG 1007 Mechanical Engineering ☐		
CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
S1	CHEM ENG 4051 Water and Wastewater Engineering ☐			
S2	C&ENVENG 4107 Prestressed Concrete Structures ☐			
TBC	CEME 4001 Advanced Reinforced Concrete Design ☐	CEME 4002 Finite Element Theory and Practice ☐	CEME 4003 Wind and Earthquake Engineering ☐	CEME 4004 Advanced Water Distribution Systems Engineering ☐
	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems ☐	CEME 4006 Advanced Hydrology and Flood Hydraulics ☐	CEME 4009 Environmental Decision Making ☐	CEME 4010 Designing Water Resource Systems for Urban Environment ☐

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.

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THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

Year 1				
S 2	#MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	ENG 1003 Programming (Matlab and Excel) ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	Level I Engineering Elective (see table below) ☐	COMP SCI 1102 Object Oriented Programming ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S 2	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐	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 3004 Interdisciplinary Professional Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics	COMP SCI 2000 Computer Systems ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 4050 Design Practice ☐	General Elective ☐	Civil Engineering Elective (see elective table) ☐
Year 5				
S 1	ENG 4001A Research Project Part A ☐	CEME 3004 Hydrology for Engineers ☐	CEME 4007 Unsaturated Soils ☐	MINING 3072 Mining Geomechanics ☐
S 2	ENG 4001B Research Project Part B ☐	Civil Engineering Elective (see elective table) ☐	CEME 4008 Soil and Ground Water Remediation ☐	COMP SCI 3006 Software Engineering & Project ☐
Year 6				
S 1	ENG 4011 Engineering Geology ☐	Level III Computer Science Elective ☐	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 LEVEL I ENGINEERING ELECTIVES				
S1	CEME 1001 Introduction to Environmental Engineering ☐	CHEM ENG 1007 Introduction to Process Engineering ☐	ELEC ENG 1101 Electronic Systems ☐	
S2	CEME 1003 Resources and Energy in an Circular Economy ☐	MECH ENG 1007 Mechanical Engineering ☐		
CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
S1	CHEM ENG 4051 Water and Wastewater Engineering ☐			
S2	C&ENVENG 4107 Prestressed Concrete Structures ☐			
TBC	CEME 4001 Advanced Reinforced Concrete Design ☐	CEME 4002 Finite Element Theory and Practice ☐	CEME 4003 Wind and Earthquake Engineering ☐	CEME 4004 Advanced Water Distribution Systems Engineering ☐
	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems ☐	CEME 4006 Advanced Hydrology and Flood Hydraulics ☐	CEME 4009 Environmental Decision Making ☐	CEME 4010 Designing Water Resource Systems for Urban Environment ☐

NOTES

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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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THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

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

Year 1				
S 2	# MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see table below) ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
S 2	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐	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 3004 Interdisciplinary Professional Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐	COMP SCI 2000 Computer Systems ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 4050 Design Practice ☐	General Elective ☐	Civil Engineering Elective (see elective table) ☐
Year 5				
S 1	ENG 4001A Research Project Part A ☐	CEME 3004 Hydrology for Engineers ☐	Level III Computer Science Elective ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐
S 2	ENG 4001B Research Project Part B ☐	Civil Engineering Elective (see elective table) ☐	CEME 4002 Finite Element Theory and Practice ☐	COMP SCI 3006 Software Engineering & Project ☐
Year 6				
S 1	CEME 4001 Advanced Reinforced Concrete Design ☐	CEME 4003 Wind and Earthquake Engineering ☐	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 LEVEL I ENGINEERING ELECTIVES				
S1	CEME 1001 Introduction to Environmental Engineering ☐	CHEM ENG 1007 Introduction to Process Engineering ☐	ELEC ENG 1101 Electronic Systems ☐	
S2	CEME 1003 Resources and Energy in an Circular Economy ☐	MECH ENG 1007 Mechanical Engineering ☐		
CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
S1	CHEM ENG 4051 Water and Wastewater Engineering ☐			
S2	C&ENVENG 4107 Prestressed Concrete Structures ☐			
TBC	ENG 4011 Engineering Geology ☐	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 ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4009 Environmental Decision Making ☐	CEME 4010 Designing Water Resource Systems for Urban Environment ☐

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

Year 1				
S 2	# MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	General Elective ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see table below) ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	COMP SCI 1102 Object Oriented Programming ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	CEME 2001 Strength of Materials ☐	CEME 2003 Civil Engineering Hydraulics ☐	CEME 2004 Introduction to Geo-engineering ☐
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Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐	COMP SCI 2000 Computer Systems ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 4050 Design Practice ☐	General Elective ☐	Civil Engineering Elective (see elective table) ☐
Year 5				
S 1	ENG 4001A Research Project Part A ☐	CEME 3004 Hydrology for Engineers ☐	Level III Computer Science Elective ☐	COMP SCI 2201 Algorithm & Data Structure Analysis ☐
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Year 6				
S 1	CEME 4004 Advanced Water Distribution Systems Engineering ☐	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems ☐	Level III Computer Science Elective ☐	Level III Computer Science Elective ☐

Core Courses | Major Courses | Double Degree Courses

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	CEME 4007 Unsaturated Soils ☐	CEME 4008 Soil and Groundwater Remediation ☐	CEME 4009 Environmental Decision Making ☐	CEME 4010 Designing Water Resource Systems for Urban Environment ☐

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