



THE UNIVERSITY  
of ADELAIDE

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

Bachelor of Engineering (Honours) (Civil) – All Majors with Bachelor of Finance

## **Semester 1 Start**

[Bachelor of Engineering \(Honours\) \(Civil\) with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Civil\) Geotechnical Engineering Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Civil\) Structural Engineering Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Civil\) Water Systems Major with Bachelor of Finance](#)

## Bachelor of Engineering (Honours) (Civil) with Bachelor of Finance

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	Level 1 Engineering Elective (see elective table) <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	ACCTING 1002 Introductory Accounting <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>	CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CEME 2004 Introduction to Geo-engineering <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	CEME 2002 Structural Mechanics <input type="checkbox"/>	CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/>	CORPFIN 1002 Business Finance <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	ECON 1009 International Financial Institutions and Markets <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 3003 Structural Steel Design <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 3006 Geotechnical Engineering <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 3004 Hydrology for Engineers <input type="checkbox"/>	ECON 1012 Principles of Economics <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	CORPFIN 2502 Business Valuation <input type="checkbox"/>	ECON 2508 Financial Economics <input type="checkbox"/>
Year 5				
S 1	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II <u>or</u> MATHS 2103 Probability & Statistics II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	Civil Engineering Elective (see elective table) <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management <u>or</u> MATHS 3012 Financial Modelling <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>

## Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES				
S1	CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>	
S2	CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/>	MECH ENG 1007 Mechanical Engineering <input type="checkbox"/>		
CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
S1	CHEM ENG 4051 Water and Wastewater Engineering <input type="checkbox"/>			
S2	C&ENVENG 4107 Prestressed Concrete Structures <input type="checkbox"/>			
TBC	CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/>	CEME 4002 Finite Element Theory and Practice <input type="checkbox"/>	CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/>	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"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>
	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environment <input type="checkbox"/>	ENG 4011 Engineering Geology <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>

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## Bachelor of Engineering (Honours) (Civil) Geotechnical Engineering Major with Bachelor of Finance

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	ACCTING 1002 Introductory Accounting <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	ECON 1009 International Financial Institutions and Markets <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>	CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CEME 2004 Introduction to Geo-engineering <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	CEME 2002 Structural Mechanics <input type="checkbox"/>	CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/>	CORPFIN 1002 Business Finance <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 3003 Structural Steel Design <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 3006 Geotechnical Engineering <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"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	ECON 1012 Principles of Economics <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	CORPFIN 2502 Business Valuation <input type="checkbox"/>	ECON 2508 Financial Economics <input type="checkbox"/>
Year 5				
S 1	CEME 4007 Unsaturated Soils <input type="checkbox"/>	ENG 4011 Engineering Geology <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II or MATHS 2103 Probability & Statistics II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management or MATHS 3012 Financial Modelling <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>

Core Courses

Major Courses

Double Degree Courses

## Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES				
S1	CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>	
S2	CEME 1003 Resources and Energy in an Circular Economy <input type="checkbox"/>	MECH ENG 1007 Mechanical Engineering <input type="checkbox"/>		
CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
S1	CHEM ENG 4051 Water and Wastewater Engineering <input type="checkbox"/>			
S2	C&ENVENG 4107 Prestressed Concrete Structures <input type="checkbox"/>			
TBC	CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/>	CEME 4002 Finite Element Theory and Practice <input type="checkbox"/>	CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/>	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"/>	CEME 4008 Soil and Groundwater Remediation <input type="checkbox"/>
	CEME 4009 Environmental Decision Making <input type="checkbox"/>	CEME 4010 Designing Water Resource Systems for Urban Environment <input type="checkbox"/>	ENG 4011 Engineering Geology <input type="checkbox"/>	

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Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	Level 1 Engineering Elective (see elective table) <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	ACCTING 1002 Introductory Accounting <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>	CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CEME 2004 Introduction to Geo-engineering <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	CEME 2002 Structural Mechanics <input type="checkbox"/>	CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/>	CORPFIN 1002 Business Finance <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	ECON 1009 International Financial Institutions and Markets <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 3003 Structural Steel Design <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 3006 Geotechnical Engineering <input type="checkbox"/>
Internship				
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Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	ECON 1012 Principles of Economics <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	CORPFIN 2502 Business Valuation <input type="checkbox"/>	ECON 2508 Financial Economics <input type="checkbox"/>
Year 5				
S 1	CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/>	CEME 4002 Finite Element Theory and Practice <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II or MATHS 2103 Probability & Statistics II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management or MATHS 3012 Financial Modelling <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>

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