Bachelor of Engineering (Honours)(Civil) – All Majors with Bachelor of Arts – Semester 2 Start

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

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

Year 1				
S 2	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	^ ENG 1001 Introduction to Engineering	ARTS 1007 The Enquiring Mind
Year 2				
S 1	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1003 Programming (Matlab and Excel)	Level I Engineering Elective (see elective table)
S 2	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	General Elective *Suggestion: CEME 2006 Environmental Modelling and Simulation*
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	~Arts Major Course	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice	CEME 3002 Reinforced Concrete Design	CEME 3001 Computer Analysis of Structures and Structural Dynamics	Civil Engineering Elective (see elective table)
S 2	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	~Arts Major Course Level II	Civil Engineering Elective (see elective table)
Year 5				
S 1	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	Civil Engineering Elective (see elective table)	Civil Engineering Elective (see elective table)
S 2	ENG 4001B Research Project Part B	~Arts Major Course	~Arts Major Course	~Arts Major Course
Year 6				
S 1	~ Arts Major Course	~ Arts Major Course	~Arts Major Level III Capstone Course (6 units)	

Core Courses	Double Degree Courses	Elective (see table)

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

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation	**S2**	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics Civil Engineering Construction Materials
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	**S2**	CEME 2006 CEME 3007 C&ENVENG 4109 C&ENVENG 4110	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
TBC	CEME 4009 CEME 4007 ENG 4011 CEME 4005 CEME 4006 CEME 4003 CEME 4001 CEME 4002 CEME 4004	Environmental Decision Making Unsaturated Soils Engineering Geology Advanced Hydrological Modelling & Water Resource Systems Advanced Hydrology and Flood Hydraulics Wind and Earthquake Engineering Advanced Reinforced Concrete Design Finite Element Theory and Practice Advanced Water Distribution Systems Engineering			

NOTES

Internship: All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. 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. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted.

Arts Electives may be chosen from courses listed in the Program Rules for the degree of Bachelor of Arts. Students must complete a major in accordance with the Program Rules for the Bachelor of Arts.

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THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Civil) - Geotechnical Engineering Major with Bachelor of Arts – Semester 2 Start

Year 1				
S 1				
S 2	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	^ ENG 1001 Introduction to Engineering	ARTS 1007 The Enquiring Mind
Year 2				
S 1	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1003 Programming (Matlab and Excel)	Level I Engineering Elective (see elective table)
S 2	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	Arts Major Course
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	Arts Major Course	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice	CEME 3002 Reinforced Concrete Design	CEME 3001 Computer Analysis of Structures and Structural Dynamics	MINING 4102 Mining Geotechnical Engineering
S 2	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	Arts Major Course Level II	ENG 4011 Engineering Geology
Year 5				
S 1	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	CEME 4007 Unsaturated Soils	Arts Major Course
S 2	ENG 4001B Research Project Part B	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems	CEME 4008 Soil and Ground Water Remediation	Arts Major Course
Year 6				

S 1	Arts Major Course ☐	Arts Major Course ☐	Arts Major Course ☐	Arts Major Course ☐

Core Courses	Major Courses	Elective (see table)	Double Degree Courses

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

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation	**S2**	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in an Circular Economy Engineering Mechanics – Dynamics Civil Engineering Construction Materials

NOTES

Internships: All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. 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. 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 2021 Study Plan

Bachelor of Engineering (Honours) (Civil) - Structural Engineering Major with Bachelor of Arts – Semester 2 Start

Year 1				
S 1				
S 2	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	^ ENG 1001 Introduction to Engineering	ARTS 1007 The Enquiring Mind
Year 2				
S 1	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1003 Programming (Matlab and Excel)	Level I Engineering Elective (see elective table)
S 2	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	Arts Major Course
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	Arts Major Course Level II	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice	CEME 3002 Reinforced Concrete Design	CEME 3001 Computer Analysis of Structures and Structural Dynamics	CEME 4001 Advanced Reinforced Concrete Design
S 2	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	Civil Engineering Elective (see elective table)	CEME 4002 Finite Element Theory and Practice
Year 5				
S 1	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	CEME 4003 Wind and Earthquake Engineering	Civil Engineering Elective (see elective table)
S 2	ENG 4001B Research Project Part B	Arts Major Course	Arts Major Course	Arts Major Course
Year 6				

S 1	Arts Major Course ☐	Arts Major Course ☐	Arts Major Course ☐	Arts Major Course ☐

Core Courses	Major Courses	Elective (see table)	Double Degree Courses

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

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation	**S2**	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics Civil Engineering Construction Materials
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	**S2**	CEME 2006 CEME 3007 C&ENVENG 4109 C&ENVENG 4110	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
TBC	CEME 4009 CEME 4007 ENG 4011 CEME 4005 CEME 4006 CEME 4004	Environmental Decision Making Unsaturated Soils Engineering Geology Advanced Hydrological Modelling & Water Resource Systems Advanced Hydrology and Flood Hydraulics Advanced Water Distribution Systems Engineering			

NOTES

Internships: All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. 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. 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 2021 Study Plan

Bachelor of Engineering (Honours) (Civil) - Water Systems Major with Bachelor of Arts – Semester 2 Start

Year 1				
	☐	☐	☐	☐
S 2	MATHS 1011 Mathematics IA ☐	CEME 1002 Introduction to Infrastructure ☐	^ ENG 1001 Introduction to Engineering ☐	ARTS 1007 The Enquiring Mind ☐
Year 2				
S 1	MATHS 1012 Mathematics IB ☐	CEME 1004 Engineering Mechanics - Statics ☐	ENG 1003 Programming (Matlab and Excel) ☐	Level I Engineering Elective (see elective table) ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	CEME 2002 Structural Mechanics ☐	CEME 2005 Transportation Engineering & Surveying ☐	Arts Major Course ☐
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	Arts Major Course Level II ☐	CEME 3005 Advanced Civil Engineering Hydraulics ☐	CEME 3003 Structural Steel Design ☐	CEME 3006 Geotechnical Engineering ☐
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice ☐	CEME 3002 Reinforced Concrete Design ☐	CEME 3001 Computer Analysis of Structures and Structural Dynamics ☐	CEME 4004 Advanced Water Distribution Systems Engineering ☐
S 2	ENG 3005 Research Method & Project Management ☐	CEME 4050 Design Practice ☐	Civil Engineering Elective (see elective table) ☐	CEME 4006 Advanced Hydrology and Flood Hydraulics ☐
Year 5				
S 1	ENG 4001A Research Project Part A ☐	CEME 3004 Hydrology for Engineers ☐	Arts Major Course ☐	Civil Engineering Elective (see elective table) ☐
S 2	ENG 4001B Research Project Part B ☐	Arts Major Course ☐	Arts Major Course ☐	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems ☐
Year 6				

S 1	Arts Major Course ☐	Arts Major Course ☐	Arts Major Course ☐	Arts Major Course ☐

Core Courses	Major Courses	Elective (see table)	Double Degree Courses

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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
S1	CEME 1001 CHEM ENG 1007 ELEC ENG 1101 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation	**S2**	CEME 1003 MECH ENG 1007 CONMGNT 1000	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics Civil Engineering Construction Materials
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
S1	CHEM ENG 4051	Water and Wastewater Engineering	**S2**	CEME 2006 CEME 3007 C&ENVENG 4109 C&ENVENG 4110	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments Soil and Ground Water Remediation
TBC	CEME 4009 CEME 4007 ENG 4011 CEME 4003 CEME 4001 CEME 4002	Environmental Decision Making Unsaturated Soils Engineering Geology Wind and Earthquake Engineering Advanced Reinforced Concrete Design Finite Element Theory and Practice			

NOTES

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