

Bachelor of Engineering (Honours) (Civil) and Bachelor of Arts Study Plans — Semester 1 Start

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Bachelor of Engineering (Honours) (Civil) and Bachelor of Arts

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"/>	ARTS 1007 The Enquiring Mind <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"/>	Arts Major Course <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	Arts Major Course <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 during the course of their studies – see note below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Level II Arts Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
Year 5				
S 1	General Elective <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
S 2	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>	Level III Arts Major Capstone Course (6 units) <input type="checkbox"/>	
Core Course	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 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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Bachelor of Engineering (Honours) (Civil) - Geotechnical Engineering Major and Bachelor of Arts

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"/>	ARTS 1007 The Enquiring Mind <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"/>	Arts Major Course <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	Arts Major Course <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 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
Year 5				
S 1	CEME 4007 Unsaturated Soils <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
S 2	ENG 4011 Engineering Geology <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Core Courses		Major Courses		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	Introduction to Environmental Engineering	S2	CEME 1003	Resources and Energy in an Circular Economy
	CHEM ENG 1007	Introduction to Process Engineering		MECH ENG 1007	Engineering Mechanics – Dynamics
	ELEC ENG 1101	Electronic Systems		CONMGNT 1000	Civil Engineering Construction Materials
	CONMGNT 1001	Fundamentals of Construction Estimation			

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Bachelor of Engineering (Honours) (Civil) - Structural Engineering Major and Bachelor of Arts

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"/>	ARTS 1007 The Enquiring Mind <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"/>	Arts Major Course <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	Arts Major Level II <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 4001 Advanced Reinforced Concrete Design <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4002 Finite Element Theory and Practice <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Arts Major Course <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"/>	Arts Major Course <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
S 2	CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Core Courses		Major Courses		Elective (see table)
				Double Degree Courses

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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
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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
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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
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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"/>
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S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
Year 5				
S 1	CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>
S 2	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>	Arts Major Course <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
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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			

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