

Bachelor of Engineering (Honours) (Civil) – All Majors with Bachelor of Mathematical and Computer Sciences (Mathematics Major) – Semester 1 Start

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Bachelor of Engineering (Honours) (Civil)
with Bachelor of Mathematical and Computer Sciences – Mathematics Major

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <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"/>	General Elective <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"/>	Level II or III Mathematics Elective <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"/>	Level II or III Mathematics Elective <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 elective table.				
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 or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <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"/>	General Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses		Double Degree Courses		Elective (see table)

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 (not offered until 2022)	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
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

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

Internship: 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.

General electives: How to choose an elective course in your area of interest?

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Bachelor of Engineering (Honours) (Civil) - Construction Management Major
with Bachelor of Mathematical and Computer Sciences – Mathematics Major

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <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"/>	DESST 1504 Representation I <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"/>	Level II or III Mathematics Elective <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"/>	Level II or III Mathematics Elective <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 elective table.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	DESST 2518 Construction II <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	ENG 3301 Construction Management and Technology I <input type="checkbox"/>	DESST 3514 Construction III <input type="checkbox"/>	ENG 3302 Cost Planning and Management <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	ENG 3304 Development and Construction <input type="checkbox"/>	ENG 3303 Construction Management and Technologies <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses		Major Courses		Double Degree Courses

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 (not offered until 2022)	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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^ **EAL:** Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

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

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <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"/>	General Elective <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"/>	Level II or III Mathematics Elective <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"/>	Level II or III Mathematics Elective <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 elective table.				
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 or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	CEME 4007 Unsaturated Soils <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	ENG 4011 Engineering Geology <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses	Major Courses	Elective (see elective table)	Double Degree Courses	

^ EAL: 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 (not offered until 2022)	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	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments
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TBC	CEME 4009 ENG 4011 CEME 4005 CEME 4006 CEME 4003 CEME 4001 CEME 4002 CEME 4004	Environmental Decision Making 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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General electives: How to choose an elective course in your area of interest?

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

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1004 Engineering Mechanics- Statics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <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"/>	General Elective <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"/>	Level II or III Mathematics Elective <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"/>	Level II or III Mathematics Elective <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"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	General Elective <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/>	CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	CEME 4002 Finite Element Theory and Practice <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses		Major Courses		Elective (see elective table)
				Double Degree Courses

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Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
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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
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			

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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"/>	Level II or III Mathematics Elective <input type="checkbox"/>
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Year 5				
S 1	CEME 4004 Advanced Water Distribution Systems Engineering <input type="checkbox"/>	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses	Major Courses	Elective (see elective table)	Double Degree Courses	

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 (not offered until 2022)	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
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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