

## Bachelor of Engineering (Honours)(Civil) – All Majors with Bachelor of Mathematical and Computer Sciences – Mathematics Major – Semester 2 Start

Bachelor of Engineering (Honours) (Civil) with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start .....	2
Bachelor of Engineering (Honours) (Civil) - Construction Management Major with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start .....	4
Bachelor of Engineering (Honours) (Civil) - Geotechnical Engineering Major with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start.....	6
Bachelor of Engineering (Honours) (Civil) - Structural Engineering Major with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start.....	8
Bachelor of Engineering (Honours) (Civil) - Water Systems Major with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start .....	10

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

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	▲ ENG 1001 Introduction to Engineering <input type="checkbox"/>	Level I Engineering Elective (see elective table) <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	Civil Engineering Elective (see elective table) <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"/>	General Elective <i>Suggestion: CEME 2006 Environmental Modelling and Simulation</i> <input type="checkbox"/>
Year 3				
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	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CEME 3003 Structural Steel Design <input type="checkbox"/>	CEME 3006 Geotechnical Engineering <input type="checkbox"/>	Level II or III Mathematics Elective <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 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Mngmt <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	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"/>
Year 6				
S 1	General Elective <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

<b>S1</b>	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	<b>S2</b>	CEME 1003 MECH ENG 1007	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics
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### CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES

<b>S1</b>	CHEM ENG 4051	Water and Wastewater Engineering	<b>S2</b>	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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<b>TBC</b>	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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#### 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 - Mathematical Sciences Major – Semester 2 Start

Year 1								
S	MATHS 1011 Mathematics IA	<input type="checkbox"/>	CEME 1002 Introduction to Infrastructure	<input type="checkbox"/>	^ ENG 1001 Introduction to Engineering	<input type="checkbox"/>	Level I Engineering Elective (see elective table)	<input type="checkbox"/>
Year 2								
S	MATHS 1012 Mathematics IB	<input type="checkbox"/>	CEME 1004 Engineering Mechanics - Statics	<input type="checkbox"/>	ENG 1002 Programming (Matlab and C)	<input type="checkbox"/>	DESST 2518 Construction II	<input type="checkbox"/>
S	MATHS 2107 Statistics & Numerical Methods II	<input type="checkbox"/>	CEME 2002 Structural Mechanics	<input type="checkbox"/>	CEME 2005 Transportation Engineering & Surveying	<input type="checkbox"/>	DESST 1504 Representation I	<input type="checkbox"/>
Year 3								
S	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	CEME 3005 Advanced Civil Engineering Hydraulics	<input type="checkbox"/>	CEME 3003 Structural Steel Design	<input type="checkbox"/>	CEME 3006 Geotechnical Engineering	<input type="checkbox"/>	Level II or III Mathematics Elective	<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	ENG 3004 Interdisciplinary Professional Practice	<input type="checkbox"/>	CEME 3002 Reinforced Concrete Design	<input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics	<input type="checkbox"/>	ENG 3301 Construction Management and Technology I	<input type="checkbox"/>
S	ENG 3005 Research Method & Project Management	<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	ENG 4001A Research Project Part A	<input type="checkbox"/>	CEME 3004 Hydrology for Engineers	<input type="checkbox"/>	Level II or III Mathematics Elective	<input type="checkbox"/>	Level II or III Mathematics Elective	<input type="checkbox"/>
S	ENG 4001B Research Project Part B	<input type="checkbox"/>	ENG 3303 Construction Management and Technologies	<input type="checkbox"/>	ENG 3304 Development and Construction	<input type="checkbox"/>	Level III Mathematics Elective	<input type="checkbox"/>
Year 6								



S	DESST 3514 Construction III <input type="checkbox"/>	ENG 3302 Cost Planning and Management <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
1				
Core Courses		Major Courses	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	Introduction to Environmental Engineering	S2	CEME 1003	Resources and Energy in a Circular Economy
	CHEM ENG 1007	Introduction to Process Engineering		MECH ENG 1007	Engineering Mechanics- Dynamics
	ELEC ENG 1101	Electronic Systems			

### NOTES

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

Year 1				
S	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	ENG 1001 Introduction to Engineering	Level I Engineering Elective (see elective table)
Year 2				
S	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1002 Programming (Matlab and C)	General elective
S	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	Level II or III Mathematics Elective
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	CEME 2001 Strength of Materials	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering
S	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	Level II or III Mathematics Elective
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	ENG 3004 Systems Engineering and Industry Practice	CEME 3002 Reinforced Concrete Design	CEME 3001 Computer Analysis of Structures and Structural Dynamics	Level II or III Mathematics Elective
S	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	Civil Engineering Elective (see elective table)	Level III Mathematics Elective
Year 5				
S	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	Civil Engineering Elective (see elective table)	Level II or III Mathematics Elective
S	ENG 4001B Research Project Part B	CEME 4007 Unsaturated Soils	CEME 4008 Soil and Ground Water Remediation	Level III Mathematics Elective
Year 6				



S 1	ENG 4011 Engineering Geology <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
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Core Courses	Major Courses	Double Degree Courses
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## Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
<b>S1</b>	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	<b>S2</b>	CEME 1003 MECH ENG 1007	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
<b>S1</b>	CHEM ENG 4051	Water and Wastewater Engineering	<b>S2</b>	CEME 2006 CEME 3007 C&ENVENG 4109	Environmental Modelling and Simulation Integrated Environment Planning and Impact Assessment Designing Water Resource Systems for Urban Environments
<b>TBC</b>	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			

### NOTES

**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.

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

Year 1				
S	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	ENG 1001 Introduction to Engineering	Level I Engineering Elective (see elective table)
2				
Year 2				
S	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1002 Programming (Matlab and C)	General Elective
2	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	General Elective
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	CEME 2001 Strength of Materials	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering
2	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	Level II or III Mathematics Elective
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	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)
2	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	Level II or III Mathematics Elective	Level III Mathematics Elective
Year 5				
S	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	Level II or III Mathematics Elective	Level II or III Mathematics Elective
2	ENG 4001B Research Project Part B	CEME 4001 Advanced Reinforced Concrete Design	CEME 4002 Finite Element Theory and Practice	Level III Mathematics Elective
Year 6				





S 1	CEME 4003 Wind and Earthquake Engineering <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	Double Degree Courses	Elective (see electives table)

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## Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
<b>S1</b>	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	<b>S2</b>	CEME 1003 MECH ENG 1007	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
<b>S1</b>	CHEM ENG 4051	Water and Wastewater Engineering	<b>S2</b>	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
<b>TBC</b>	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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Bachelor of Engineering (Honours) (Civil) - Water Systems Major with Bachelor of Mathematical and Computer Sciences - Mathematical Sciences Major – Semester 2 Start

Year 1				
S	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	ENG 1001 Introduction to Engineering	Level I Engineering Elective (see elective table)
Year 2				
S	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics - Statics	ENG 1002 Programming (Matlab and C)	General Elective
S	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	General Elective
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	CEME 2001 Strength of Materials	CEME 2003 Civil Engineering Hydraulics	CEME 2004 Introduction to Geo-engineering
S	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	Level II or III Mathematics Elective
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	ENG 3004 Systems Engineering and Industry Practice	CEME 3001 Computer Analysis of Structures and Structural Dynamics	CEME 3002 Reinforced Concrete Design	Civil Engineering Elective (see elective table)
S	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	Level II or III Mathematics Elective	Level III Mathematics Elective
Year 5				
S	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	Level II or III Mathematics Elective	Level II or III Mathematics Elective
S	ENG 4001B Research Project Part B	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems	CEME 4006 Advanced Hydrology and Flood Hydraulics	Level III Mathematics Elective
Year 6				



S 1	CEME 4004 Advanced Water Distribution Systems Engineering <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	Double Degree Courses	Elective (see elective table)	

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## Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES					
<b>S1</b>	CEME 1001 CHEM ENG 1007 ELEC ENG 1101	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems	<b>S2</b>	CEME 1003 MECH ENG 1007	Resources and Energy in a Circular Economy Engineering Mechanics- Dynamics
CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES					
<b>S1</b>	CHEM ENG 4051	Water and Wastewater Engineering	<b>S2</b>	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
<b>TBC</b>	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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