

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

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### Bachelor of Engineering (Honours) (Civil) with Bachelor of Mathematical and Computer Sciences - Computer Science 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"/>	COMP SCI 1102 Object Oriented Programming <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"/>	COMP SCI 2103 Algorithm Design & Data Structures <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"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	General Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	Computer Science Major Level III <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"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
S 2	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
Core Courses		Elective (see table)		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 CONMGNT 1001	Introduction to Environmental Engineering Introduction to Process Engineering Electronic Systems Fundamentals of Construction Estimation (not offered until 2022)	<b>S2</b>	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					
<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 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

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**General electives:** How to choose an elective course in your area of interest?  
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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"/>	▲ ENG 1001 Introduction to Engineering <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>	CEME 2005 Transportation Engineering & Surveying <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <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"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	DESST 1504 Representation I <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"/>	DESST 2518 Construction 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				
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"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	General Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	Computer Science Major Level III <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"/>	Computer Science Major Level III <input type="checkbox"/>
S 2	ENG 3303 Construction Management and Technologies <input type="checkbox"/>	DESST 3304 Development and Construction <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
Core Courses		Major Courses		Double Degree Courses

## Electives Table

### CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES

<b>S1</b>	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)	<b>S2</b>	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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#### NOTES

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Bachelor of Engineering (Honours) (Civil) - Geotechnical Engineering Major  
with Bachelor of Mathematical and Computer Sciences - Computer Science 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"/>	COMP SCI 1102 Object Oriented Programming <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"/>	COMP SCI 2103 Algorithm Design & Data Structures <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"/>	COMP SCI 2000 Computer Systems <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"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	General Elective <input type="checkbox"/>
Year 5				
S 1	CEME 4007 Unsaturated Soils <input type="checkbox"/>	ENG 4011 Engineering Geology <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
S 2	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>	Computer Science Major Level III <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

<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
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<b>TBC</b>	CEME 4009 CEME 4005 CEME 4006 CEME 4003 CEME 4001 CEME 4002 CEME 4004	Environmental Decision Making 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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Bachelor of Engineering (Honours) (Civil) - Structural Engineering Major  
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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"/>	COMP SCI 1102 Object Oriented Programming <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"/>	COMP SCI 2103 Algorithm Design & Data Structure <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"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	General Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	Computer Science Major Level III <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"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
S 2	CEME 4002 Finite Element Theory and Practice <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
Core Courses	Major Courses	Elective (see elective table)	Double Degree Courses	

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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
<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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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"/>	COMP SCI 1102 Object Oriented Programming <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"/>	COMP SCI 2103 Algorithm Design & Data Structure <input type="checkbox"/>
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Year 4				
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S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
Year 5				
S 1	CEME 4004 Advanced Water Distribution Systems <input type="checkbox"/>	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
S 2	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	Computer Science Major Level III <input type="checkbox"/>
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<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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