

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

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

Year 1				
S 2	MATHS 1011 Mathematics IA	CEME 1002 Introduction to Infrastructure	ENG 1001 Introduction to Engineering	Level I Engineering Elective (see elective table)
Year 2				
S 1	MATHS 1012 Mathematics IB	CEME 1004 Engineering Mechanics- Statics	ENG 1003 Programming (Matlab and Excel)	CORPFIN 1002 Business Finance
S 2	MATHS 2107 Statistics & Numerical Methods II	CEME 2002 Structural Mechanics	CEME 2005 Transportation Engineering & Surveying	ECON 1012 Principles of Economics
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	CEME 3005 Advanced Civil Engineering Hydraulics	CEME 3003 Structural Steel Design	CEME 3006 Geotechnical Engineering	ACCTING 1002 Introductory Accounting
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	CEME 3002 Reinforced Concrete Design	CEME 3001 Computer Analysis of Structures and Structural Dynamics	ECON 1009 International Financial Institutions and Markets
S 2	ENG 3005 Research Method & Project Management	CEME 4050 Design Practice	CORPFIN 2502 Business Valuation II	ECON 2508 Financial Economics
Year 5				
S 1	ENG 4001A Research Project Part A	CEME 3004 Hydrology for Engineers	ECON 2515 Intermediate Applied Econometrics II <u>or</u> MATHS 2103 Probability & Statistics II	CORPFIN 3502 Options, Futures & Risk Management <u>or</u> MATHS 3012 Financial Modelling: Tools and Techniques III
S 2	ENG 4001B Research Project Part B	Civil Engineering Elective (see elective table)	CORPFIN 2501 Financial Institutions Management	Level III Finance Elective
Year 6				



S 1	Civil Engineering Elective (see elective table) <input type="checkbox"/>	Civil Engineering Elective (see elective table) <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>
Core Courses	Major Courses	Elective (see table)	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
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

**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.

**Program Rules:** For academic program rules please refer to the following website:

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Bachelor of Engineering (Honours) (Civil) Geotechnical Engineering Major with Bachelor of Finance –  
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"/>	ACCTING 1002 Introductory Accounting <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	ECON 1009 International Financial Institutions and Markets <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"/>	ECON 1012 Principles of Economics <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"/>	CORPFIN 1002 Business Finance <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"/>	MINING 4102 Mining Geotechnical Engineering <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>	ECON 2508 Financial Economics <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	ECON 2515 Intermediate Applied Econometrics II <u>or</u> MATHS 2103 Probability & Statistics II <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management <u>or</u> MATHS 3012 Financial Modelling <input type="checkbox"/>



S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4008 Soil and Ground Water Remediation <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
<b>Year 6</b>				
S 1	CEME 4007 Unsaturated Soils <input type="checkbox"/>	ENG 4011 Engineering Geology <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
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

### NOTES

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Bachelor of Engineering (Honours) (Civil) Structural Engineering Major  
with Bachelor of Finance – 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 1003 Programming (Matlab and Excel) <input type="checkbox"/>	CORPFIN 1002 Business Finance <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"/>	ECON 1012 Principles of Economics <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"/>	ACCTING 1002 Introductory Accounting <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"/>	ECON 1009 International Financial Institutions and Markets <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>	ECON 2508 Financial Economics <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	ECON 2515 Intermediate Applied Econometrics II <u>or</u> MATHS 2103 Probability & Statistics II <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management <u>or</u> MATHS 3012 Financial Modelling <input type="checkbox"/>



S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4003 Wind and Earthquake Engineering <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
<b>Year 6</b>				
S 1	CEME 4001 Advanced Reinforced Concrete Design <input type="checkbox"/>	CEME 4002 Finite Element Theory and Practice <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
Core Courses	Major Courses	Elective (see table)	Double Degree Courses	

## Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ENGINEERING 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 an Circular Economy Engineering Mechanics – Dynamics

### NOTES

**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) Water Systems Major with Bachelor of Finance – 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 1003 Programming (Matlab and Excel) <input type="checkbox"/>	CORPFIN 1002 Business Finance <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"/>	ECON 1012 Principles of Economics <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"/>	ACCTING 1002 Introductory Accounting <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 Concrete Design <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	ECON 1009 International Financial Institutions and Markets <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CEME 4050 Design Practice <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>	ECON 2508 Financial Economics <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>	ECON 2515 Intermediate Applied Econometrics II <u>or</u> MATHS 2103 Probability & Statistics II <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management <u>or</u> MATHS 3012 Financial Modelling <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CEME 4006 Advanced Hydrology and Flood Hydraulics <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
Year 6				





S 1	CEME 4004 Advanced Water Distribution Systems <input type="checkbox"/>	CEME 4005 Advanced Hydrological Modelling & Water Resource Systems <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
	Core Courses	Major Courses	Elective (see electives 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 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			

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