

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN

School of Civil, Environmental & Mining Engineering

Semester 1 Start

[Bachelor of Engineering \(Honours\)\(Civil & Architectural\)](#)

[Bachelor of Engineering \(Honours\)\(Civil, Structural and Environmental\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) and Bachelor of Arts](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Mathematical and Computer Sciences \(Computer Science Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Mathematical and Computer Sciences \(Maths Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Science](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) and Bachelor of Arts](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Mathematical and Computer Sciences \(Computer Science Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Mathematical and Computer Sciences \(Maths Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Science](#)

[Bachelor of Engineering \(Honours\)\(Mining\)](#)

[Bachelor of Engineering \(Honours\)\(Mining\) with Bachelor of Mathematical and Computer Sciences \(Maths Major\)](#)

[Bachelor of Engineering \(Honours\)\(Mining\) with Bachelor of Science](#)

Semester 2 Start

[Bachelor of Engineering \(Honours\)\(Civil & Architectural\)](#)

[Bachelor of Engineering \(Honours\)\(Civil, Structural and Environmental\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) and Bachelor of Arts](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Mathematical and Computer Sciences \(Computer Science Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Mathematical and Computer Sciences \(Maths Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Environmental\) with Bachelor of Science](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) and Bachelor of Arts](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Mathematical and Computer Sciences \(Computer Science Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Mathematical and Computer Sciences \(Maths Major\)](#)

[Bachelor of Engineering \(Honours\)\(Civil & Structural\) with Bachelor of Science](#)

[Bachelor of Engineering \(Honours\)\(Mining\)](#)

[Bachelor of Engineering \(Honours\)\(Mining\) with Bachelor of Mathematical and Computer Sciences \(Maths Major\)](#)

[Bachelor of Engineering \(Honours\)\(Mining\) with Bachelor of Science](#)

PRE-2019 COMMENCER STUDY PLAN

International students in the School of Civil present ENG 3003 Engineering Communication in lieu of other courses. Please refer to notes on the individual study plans for course replacement details. This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ARCHITECTURAL)

YEAR 1	S1	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	DESST 1504 Representation I <input type="checkbox"/>	C&ENVENG 1013 Intro to Architectural Engineering ENG 1001 Intro to Engineering <input type="checkbox"/>
	S2	DESST 2521 History Theory II <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	DESST 1507 Construction I <input type="checkbox"/>	DESST 1508 Environment I <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	DESST 1503 Design Studio I <input type="checkbox"/>	
	S2	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis 1 ENG 1003 Programming (Matlab & Excel) <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics (3units) <input type="checkbox"/>	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	DESST 2517 Environment II <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SUMMER	<input type="checkbox"/>			
SEMESTER 1	DESST 3519 Advanced Architecture Technologies <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
	MINING 3072 Mining Geomechanics <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	DESST 3514 Construction III <input type="checkbox"/>	
	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>		
SEMESTER 2	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	DESST 3517 Environment III <input type="checkbox"/>
	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in SUMMER.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of DESST 2521 History Theory II .

~ Interest in Master of Architecture

Students who want to proceed directly to undertake the Master of Architecture following completion of the Bachelor of Engineering (Honours) (Civil & Architectural) are advised to make contact with the Student/Course advisors within the School of Civil, Environmental and Mining Engineering, before the end of their Level 3 studies. There is an alternative Level 4 study plan for students wishing to take this pathway.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ARCHITECTURAL) – Semester 2 Start					
YEAR 1	S 2	DESST 2521 History Theory II <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	DESST 1507 Construction I <input type="checkbox"/>	DESST 1508 Environment I <input type="checkbox"/>
YEAR 2	S 1	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	DESST 1504 Representation I <input type="checkbox"/>	C&ENVENG 1013 Intro to Architectural Engineering ENG 1001 Intro to Engineering <input type="checkbox"/>
	S 2	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis 1 ENG 1003 Programming (Matlab & Excel) <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	DESST 1503 Design Studio I <input type="checkbox"/>	
	S 2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	DESST 2517 Environment II <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>
	S 2	Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>
YEAR 5	S 1	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

PRE-2019 COMMENCER STUDY PLAN

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SUMMER	<input type="checkbox"/>			
SEMESTER 1	DESST 3519 Advanced Architecture Technologies <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
	MINING 3072 Mining Geomechanics <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	DESST 3514 Construction III <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>	<input type="checkbox"/>		
SEMESTER 2	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	DESST 3517 Environment III <input type="checkbox"/>
	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	

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~ Interest in Master of Architecture

Students who want to proceed directly to undertake the Master of Architecture following completion of the Bachelor of Engineering (Honours) (Civil & Architectural) are advised to make contact with the Student/Course advisors within the School of Civil, Environmental and Mining Engineering, before the end of their Level 3 studies. There is an alternative Level 4 study plan for students wishing to take this pathway.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Mid-Year Students: If you commenced your studies in semester 2, please contact the Faculty Office for advice regarding the placement of the Research Project courses.

Administrative note only: International students present ENG 3003 Engineering Communication EAL in lieu of DESST 2521 History Theory II .

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL, STRUCTURAL & ENVIRONMENTAL)					
YEAR 1	S1	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S2	C&ENVENG 1012 Engineering Modelling & Analysis I – ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>
	S2	ENV BIOL 2005 Ecology for Engineers II <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>
YEAR 4	S1	Engineering Elective <input type="checkbox"/>	ECON 3500 Resource and Environmental Economics III <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems <input type="checkbox"/>

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	S2				Engineering and Industry Practice
		C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>
	MINING 3072 Mining Geomechanics <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>			
SEMESTER 2	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	ENTREP 3900 Entrepreneurs Challenge <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

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RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of ~~GEOLOGY 1104 Geology for Engineers~~ + **GEOLOGY 1103 Earth Systems 1**.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL, STRUCTURAL & ENVIRONMENTAL) – Semester 2 Start					
YEAR 1	S 2	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>
YEAR 2	S 1	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>
	S 2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineers II <input type="checkbox"/>
YEAR 3	S 1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>
	S 2	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>
	S 2	Engineering Elective <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>
YEAR 5	S 1	Engineering Elective <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>

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YEAR 6	S 2	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>
	S 1	C&ENVENG 4034 Engineering Management IV- ENG 3004 Systems Engineering and Industry Practice	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	ECON 3500 Resource and Environmental Economics III	Engineering Elective

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES					
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	
	MINING 3072 Mining Geomechanics <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>				
SEMESTER 2	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	ENTREP 3900 Entrepreneurs Challenge <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>			

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RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of ENV BIOL 1002 Ecological Issues I.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL)					
YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S2	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineers II <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	ECON 3500 Resource & Environmental Economics III <input type="checkbox"/>
	S2	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	MINING 4104 Socio - Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>
	Level II or III Mathematics courses <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	Level II or III Mathematics courses <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of ~~GEOLOGY 1104 Geology for Engineers~~ | **GEOLOGY 1103 Earth Systems 1.**

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) – Semester 2 Start					
YEAR 1	S 2	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
YEAR 2	S 1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1. <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
	S 2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineers II <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	MATHS 2201 Engineering Mathematics II MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S 2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation Only avail in S2 Please see AskECMS <input type="checkbox"/>	ECON 3500 Resource & Environmental Economics III <input type="checkbox"/>
	S 2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S 1	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	MINING 4104 Socio - Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	ENTREP 3900 Entrepreneurs Challenge <input type="checkbox"/>
	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>			
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of ENV BIOL 1002 Ecological Issues I.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) AND BACHELOR OF ARTS					
YEAR 1	S1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics	C&ENVENG 1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure	C&ENVENG 1012 Engineering Modelling & Analysis I <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel)
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II <input type="checkbox"/> CEME 1001 Introduction to Environmental Engineering	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	Arts Major <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	ECON 3500 Resources and Environmental Economics III <input type="checkbox"/>
	S2	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S1	Arts Major <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

S2	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	Mining 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics <input type="checkbox"/> Not offered 2021
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in SUMMER.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Arts Elective Level IIs may be chosen from those 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. Students commencing prior to 2016 may follow an earlier study plan or contact the Faculty of Arts for enrolment advice.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) AND BACHELOR OF ARTS - Semester 2 Start

YEAR 1	S2	MATHS 1011 Mathematics IA # <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>
YEAR 2	S1	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	Arts Major <input type="checkbox"/>
YEAR 3	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	ECON 3500 Resources and Environmental Economics III <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S1	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S2	Arts Major <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>
YEAR 6	S1	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics <input type="checkbox"/> Not offered 2021
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in SUMMER.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Arts Elective Level IIs may be chosen from those 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. Students commencing prior to 2016 may follow an earlier study plan or contact the Faculty of Arts for enrolment advice.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF FINANCE					
YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics—Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	ECON 1012 Principles in Economics I <input type="checkbox"/>
	S2	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II ECON 2515 Intermediate Applied Econometrics II or MATHS 2103 Probability & Statistics <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>
YEAR 4	S1	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III * <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

S2			Systems Engineering and Industry Practice	
	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in SUMMER.

*Either one of these courses can also be taken in lieu of a Level III Finance Elective

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF FINANCE - Semester 2 Start

YEAR 1	S2	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	ECON 1012 Principles in Economics I <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	ECON 2504 Intermediate Econometrics # ECON 2515 Intermediate Applied Econometrics II or MATHS 2103 Probability & Statistics <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III * <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
YEAR 6	S1	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES					
SEMESTER 1	Mining 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	
	Level II or III Mathematics Course <input type="checkbox"/>				
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>				
SEMESTER 2	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>			

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in SUMMER.

*Either one of these courses can also be taken in lieu of a Level III Finance Elective

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Computer Science Major)

YEAR 1	S1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics	C&ENVENG 1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering	COMP SCI 1201 Introduction to Programming for Engineers – ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Maths IIA <input type="checkbox"/> MATHS 2106 Differential Equations for Engineers II	C&ENVENG 2068 Environmental Engineering & Sustainability II <input type="checkbox"/> CEME 1001 Introduction to Environmental Engineering	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II <input type="checkbox"/> CEME 2003 Civil Engineering Hydraulics
	S2	C&ENVENG 2069 Geotechnical Engineering II <input type="checkbox"/> CEME 2004 Intro to Geo-engineering (only available in S1)	ENV BIOL 2005 Ecology for Engineering II <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying <input type="checkbox"/> CEME 2005 Transportation Engineering & Survey	COMP SCI 2103 Algorithm Design & Data Structures for Engineers <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3077 Engineering Hydrology <input type="checkbox"/> CEME 3004 - Hydrology for Engineers	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	ECON 3500 Resource and Environmental Economics III <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
	S2	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III <input type="checkbox"/> CEME 3005 Advanced Civil Engineering Hydraulics	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management <input type="checkbox"/> CEME 2006 Environmental Modelling and Simulation
YEAR 4	S1	COMP SCI Level III Elective * <input type="checkbox"/>	COMP SCI Level III Elective * <input type="checkbox"/>	COMP SCI Level III Elective * <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>
	S2	C&ENVENG 3012 Geotechnical Engineering Design III <input type="checkbox"/> CEME 3006 Geotechnical Engineering	C&ENVENG 3222 Research Methodologies and Project Management <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	COMP SCI Level II or III Elective * <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV <input type="checkbox"/> ENG 3004 Systems Engineering and Industry Practice	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in SUMMER.

*Computer Science Elective may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Computer Science Major)- Semester 2 Start					
YEAR 1	S2	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers- ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>
YEAR 2	S1	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
	S2	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineering II <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers <input type="checkbox"/>
YEAR 3	S1	MATHS 2201 Engineering Maths IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>
	S2	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	ECON 3500 Resource and Environmental Economics III <input type="checkbox"/>	COMP SCI Level III Elective * <input type="checkbox"/>
	S2	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management <input type="checkbox"/>	COMP SCI Level III Elective * <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
YEAR 6	S1	COMP SCI Level III Elective * <input type="checkbox"/>	COMP SCI Level II or III Elective * <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES					
SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	
	Level II or III Mathematics Course <input type="checkbox"/>				
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>				
SEMESTER 2	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>			

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in SUMMER.

*Computer Science Elective may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Maths Major)					
YEAR 1	S 1	GEOLOGY 1104 Geology for Engineers-I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design-I ENG 1001 Intro to Engineering <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S 2	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis-I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
YEAR 2	S 1	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S 2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineers II <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>
YEAR 3	S 1	ECON 3500 Resource and Environmental Economics III <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
	S 2	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>
	S 2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

YEAR 5	S 1	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB <input type="checkbox"/> MATHS 2103 Probability and Statistics
	S 2	Level II or III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

Mathematics electives may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN



PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Maths Major)- Semester 2 Start					
YEAR 1	S 2	ENV BIOL 1002 Ecological Issues I <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
YEAR 2	S 1	GEOLOGY 1104 Geology for Engineers I <input type="checkbox"/> GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
	S 2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineers II <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II <input type="checkbox"/> CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S 2	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>
YEAR 4	S 1	ECON 3500 Resource and Environmental Economics III <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
	S 2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
YEAR 5	S 1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB STATS 2103 Probability and Statistics <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S 2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>
YEAR 6	S 1	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

Mathematics electives may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF SCIENCE					
YEAR 1	S1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering <input type="checkbox"/>	Level I Science Elective <input type="checkbox"/>
	S2	C&ENVENG 1012 Engineering Modelling & Analysis I <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	Level I Science Elective <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II <input type="checkbox"/> CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB <u>or</u> Level II Science Elective <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	ECON 3500 Resources and Environmental Economics III <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
YEAR 5	S1	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

S2	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>		
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>
	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>			
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF SCIENCE – Semester 2 Start

YEAR 1	S 2	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel)	C&ENVENG 1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure	Level I Science Elective <input type="checkbox"/>
YEAR 2	S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics	C&ENVENG 1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering	Level I Science Elective <input type="checkbox"/>
	S 2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
YEAR 3	S 1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II <input type="checkbox"/> CEME 1001 Introduction to Environmental Engineering	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	S 2	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB <u>or</u> Level II Science Elective <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	ECON 3500 Resources and Environmental Economics III <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
	S 2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
YEAR 5	S 1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S 2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
YEAR 6	S 1	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES					
SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>				
SEMESTER 2	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	
	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>				
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>			

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL)

YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S2	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/> or CHEM ENG 4051 Water & Wastewater Engineering
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

PRE-2019 COMMENCER STUDY PLAN

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>
	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	<input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>
	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>		
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>
	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4107 Prestressed Concrete Structures <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>	<input type="checkbox"/>	

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of ~~1104 Geology for Engineers I~~ **GEOLOGY 1103 Earth Systems 1**

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) – Semester 2 Start					
YEAR 1	S2	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1011 Mathematics IA <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 INTRODUCTION TO ENVIRONMENTAL ENGINEERING <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

			or CHEM ENG 4051 Water & Wastewater Engineering		
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*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>
	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering	<input type="checkbox"/>	
	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	Level II or III Mathematics Course <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4107 Prestressed Concrete Structures <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of MECH ENG 1007 Engineering Mechanics - Dynamics.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) AND BACHELOR OF ARTS					
YEAR 1	S 1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENGENG-1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics	C&ENVENG-1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
	S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	C&ENVENG-1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure	C&ENVENG-1012 Engineering Modelling & Analysis I <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel)
YEAR 2	S 1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG-2068 Environmental Engineering & Sustainability II <input type="checkbox"/> CEME 1001 Introduction to Environmental Engineering	C&ENVENG-2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG-2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>
	S 2	C&ENVENG-2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG-2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG-2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	C&ENVENG-2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG-3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG-3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics) <input type="checkbox"/>	C&ENVENG-3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	Arts Major <input type="checkbox"/>
	S 2	C&ENVENG-3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG-3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG-3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG-3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG-4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	
	S 2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S 1	Arts Major <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

S 2	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>
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*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	<input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only)	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Arts Elective Level IIs may be chosen from those 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. Students commencing prior to 2016 may follow an earlier study plan or contact the Faculty of Arts for enrolment advice

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) AND BACHELOR OF ARTS – Semester 2 Start

YEAR 1	S2	MATHS 1011 Mathematics IA # <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure	C&ENVENG 1012 Engineering Modelling & Analysis I <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel)
YEAR 2	S1	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics	C&ENVENG 1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>
YEAR 3	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>
	S2	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	Arts Major <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Arts Major <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>
YEAR 6	S1	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>	Arts Major <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	<input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management Not offered in 2020 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

Arts Elective Level IIs may be chosen from those 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. Students commencing prior to 2016 may follow an earlier study plan or contact the Faculty of Arts for enrolment advice.

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN



PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF FINANCE					
YEAR 1	S 1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
	S 2	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>
YEAR 2	S 1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
	S 2	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>
	S 2	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) or CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II ECON 2515 Intermediate Applied Econometrics II or MATHS 2103 Probability & Statistics <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>
	S 2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

YEAR 5	S 1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV - ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S 2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	<input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	<input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

*Either one of these courses can also be taken on lieu of a Level III Finance Elective

RESEARCH PROJECT INFORMATION: The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF FINANCE – Semester 2 Start

YEAR 1	S2	C&ENVENG 1009 Civil & Environmental Engineering I – CEME 1002 Intro to Infrastructure <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I – ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 1008 Engineering Planning & Design I – ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics – CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
	S2	C&ENVENG 2069 Geotechnical Engineering II – CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II – MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics – CEME 2002 Structural Mechanics <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 2025 Strength of Materials II – CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II – CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA – MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
	S2	C&ENVENG 3012 Geotechnical Engineering Design III – CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design – CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III – CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics – CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3005 Reinforced Concrete Design – CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology – CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management – ENG 3005 Research Methods and Project Management <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <u>or</u> CORPFIN 3502 Options, Futures & Risk Management III * <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II (3 units) <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV – ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II – ECON 2515 Intermediate Applied Econometrics <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

					II or MATHS 2103 Probability & Statistics
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
YEAR 6	S1	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) (S2 only) or CHEM ENG 4051 Water & Wastewater Engineering	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>
	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	
	Level II or III Mathematics Course <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation	
SUMMER	<input type="checkbox"/>			

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN



*Either one of these courses can also be taken on lieu of a Level III Finance elective

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

PRE-2019 COMMENCER STUDY PLAN

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Computer Science Major)

YEAR 1	S1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics – CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Maths IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Engineering <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>
	S2	MATHS 2202 Engineering Maths IIB MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) or CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	Level II or III Computer Science Elective * <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	COMP SCI Level III Elective * <input type="checkbox"/>
	S2	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research <input type="checkbox"/>	COMP SCI Level III Elective * <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

			Methods and Project Management		
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV - ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	COMP SCI Level III Elective * <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

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*Computer Science Elective may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences

RESEARCH PROJECT INFORMATION The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Computer Science Major) – Semester 2 Start

YEAR 1	S2	MATHS 1011 Mathematics IA # <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I <input type="checkbox"/> CEME 1002 Intro to Infrastructure <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>
YEAR 2	S1	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I <input type="checkbox"/> ENG 1001 Intro to Engineering <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
	S2	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying CEME 2005 Transportation Engineering & Survey <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>
YEAR 3	S1	MATHS 2201 Engineering Maths IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II <input type="checkbox"/> CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>
	S2	MATHS 2202 Engineering Maths IIB MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>
	S2	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level II or III Computer Science Elective <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	COMP SCI Level III Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
YEAR 6	S1	Engineering Elective <input type="checkbox"/>	&ENVENG 3029 Environmental Modelling & Management <u>or</u> CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	COMP SCI Level III Elective <input type="checkbox"/>	COMP SCI Level III Elective

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	<input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	Level II or III Mathematics Course <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only)	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

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Computer Science Elective may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences

RESEARCH PROJECT INFORMATION: The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Maths Major)

YEAR 1	S1	GEOLOGY 1104 Geology for Engineers-I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics—Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design-I ENG 1001 Intro to Engineering <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S2	C&ENVENG 1012 Engineering Modelling & Analysis-I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering-I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	MATHS 2201 Engineering Mathematics II MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/> Or CHEM ENG 4051 Water & Wastewater Engineering
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

YEAR 5	S1	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IB <input type="checkbox"/> MATHS 2103 Probability and Statistics
	S2	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics <input type="checkbox"/> Not offered 2021
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>			
SEMESTER 2	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

Mathematics electives may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Maths Major) – Semester 2 Start

YEAR 1	S2	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
YEAR 2	S1	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S2	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/> or CHEM ENG 4051 Water & Wastewater Engineering
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>
YEAR 6	S1	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB MATHS 2103 Probability and Statistics <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	<input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	<input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

Mathematics electives may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences.

RESEARCH PROJECT INFORMATION: The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF SCIENCE					
YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	Level I Science Elective <input type="checkbox"/>
	S2	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	Level I Science Elective <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	MATHS 2202 Engineering Maths IIB or Level II Science Elective <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	S2	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
	S2	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
YEAR 5	S1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV ENG 3004 <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

	S2		Systems Engineering and Industry Practice		
		C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective (3units) <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>

*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	<input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>			
SEMESTER 2	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>
	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only)	
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>		

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

PRE-2019 COMMENCER STUDY PLAN

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (CIVIL & STRUCTURAL) WITH BACHELOR OF SCIENCE – Semester 2 Start

YEAR 1	S	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I CEME 1002 Intro to Infrastructure <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	Level I Science Elective <input type="checkbox"/>
	2				
YEAR 2	S	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	Level I Science Elective <input type="checkbox"/>
	1				
	S	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	2				
YEAR 3	S	C&ENVENG 2071 Water Engineering II CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	1				
	S	C&ENVENG 3012 Geotechnical Engineering Design III CEME 3006 Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>	C&ENVENG 3007 Structural Steel Design CEME 3003 Structural Steel Design <input type="checkbox"/>	MATHS 2202 Engineering Maths IIB or Level II Science Elective <input type="checkbox"/>
	2				
YEAR 4	S	C&ENVENG 3005 Reinforced Concrete Design CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology CEME 3004 - Hydrology for Engineers <input type="checkbox"/>	C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
	1				
	S	C&ENVENG 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
	2				

PRE-2019 COMMENCER STUDY PLAN

YEAR 5	S 1	C&ENVENG 4222A Research Project Part A: Civil <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV- ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	C&ENVENG 4041 Structural Design Practice <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S 2	C&ENVENG 4222B Research Project Part B: Civil <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>

YEAR 6	S 1	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
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*C&ENVENG 3020 replaces C&ENVENG 3001 Structural Mechanics III

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>	C&ENVENG 4068 Computer Methods of Structural Analysis <input type="checkbox"/>
	C&ENVENG 4073 Water Distribution Systems & Design (Not offered 2021) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	<input type="checkbox"/>
	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management Not offered 2021 <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments <input type="checkbox"/>	Level II or III Mathematics Course <input type="checkbox"/>
	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (Not offered 2021) <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	<input type="checkbox"/>
SUMMER	<input type="checkbox"/>	SPATIAL 3007WT GIS for Environmental Management III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



PRE-2019 COMMENCER STUDY PLAN

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in C&ENVENG 3222. The group then develop the Research Project in C&ENVENG 4222A Part A and C&ENVENG 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (MINING)					
YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S2	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids <input type="checkbox"/>	MATHS 2201 Engineering Mathematics II MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S2	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing <input type="checkbox"/>
YEAR 3	S1	MINING 3070 Resource Estimation <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>
	S2	MINING 3068 Mine Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 3073 Mine Planning <input type="checkbox"/>	MINING 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>
YEAR 4	S1	MINING 4222A Research Project Part A: Mining <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	MINING 4222B Research Project Part B: Mining <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES			
SEMESTER 1	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	MINING 4107 Surface Mining Systems Not offered 2021 <input type="checkbox"/>
SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering Not offered 2021 <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>
SUMMER	<input type="checkbox"/>		

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in MINING 3222. The group then develop the Research Project in MINING 4222A Part A and MINING 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of C&ENVENG 1008 Engineering Planning & Design I.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (MINING) – Semester 2 Start

YEAR 1	S2	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel)	<input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics	<input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I	<input type="checkbox"/>	MATHS 1011 Mathematics IA #	<input type="checkbox"/>
YEAR 2	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering	<input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics	<input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1	<input type="checkbox"/>	MATHS 1012 Mathematics IB	<input type="checkbox"/>
	S2	GEOLOGY 2504 Economic & Mine Geology II	<input type="checkbox"/>	C&ENVENG 2070 Engineering Modelling & Analysis II MATHS 2107 Statistics & Numerical Methods II	<input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1)	<input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing	<input type="checkbox"/>
YEAR 3	S1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials	<input type="checkbox"/>	MINING 3070 Resource Estimation	<input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids	<input type="checkbox"/>	MINING 3071 Mining Systems	<input type="checkbox"/>
	S2	MINING 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management	<input type="checkbox"/>	MINING 3068 Mine Ventilation	<input type="checkbox"/>	MINING 3069 Rock Breakage	<input type="checkbox"/>	MINING 3073 Mine Planning	<input type="checkbox"/>
YEAR 4	S1	MINING 4222A Research Project Part A: Mining	<input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering	<input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II	<input type="checkbox"/>	MINING 3072 Mining Geomechanics	<input type="checkbox"/>
	S2	MINING 4222B Research Project Part B: Mining	<input type="checkbox"/>	MINING 4101 Mine Management	<input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility	<input type="checkbox"/>	Engineering Elective	<input type="checkbox"/>
YEAR 5	S1	MINING 4104 Socio-Environmental Aspects of Mining	<input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering	<input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility	<input type="checkbox"/>	Engineering Elective	<input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	MINING 4107 Surface Mining Systems Not offered 2021 <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation (S2 only) <input type="checkbox"/>	
SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering Not offered 2021 <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	
SUMMER	<input type="checkbox"/>			

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in MINING 3222. The group then develop the Research Project in MINING 4222A Part A and MINING 4222B Part B.

Administrative note only:

*International students present ENG 3003 Engineering Communication EAL in lieu of MECH ENG 1007 Engineering Mechanics - Dynamics.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (MINING) WITH BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Maths Major)

YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S2	MECHENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>
	S2	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	C&ENVENG 2070 Engineering, Modelling & Analysis II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing <input type="checkbox"/>
YEAR 3	S1	MINING 3070 Resource Estimation <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>
	S2	MINING 3073 Mine Planning <input type="checkbox"/>	MINING 3068 Mine Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>
YEAR 4	S1	MINING 4222A Research Project Part A: Mining <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	MINING 4222B Research Project Part B: Mining <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
YEAR 5	S1	Level II or III Maths Elective <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

S2	Level II or III Maths Elective <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	<input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	MINING 4107 Surface Mining Systems Not offered 2021 <input type="checkbox"/>	
SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering Not offered 2021 <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation
SUMMER	<input type="checkbox"/>			

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

Mathematics electives may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in MINING 3222. The group then develop the Research Project in MINING 4222A Part A and MINING 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (MINING) WITH BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Maths Major) – Semester 2 Start

YEAR 1	S2	MECHENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 1008 Engineering Planning & Design I ENG 1001 Intro to Engineering <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers I <input type="checkbox"/> GEOLOGY 1103 Earth Systems 1 <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics – Statics <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
	S2	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	C&ENVENG 2070 Engineering, Modelling & Analysis II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	MINING 3070 Resource Estimation <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>
	S2	MINING 3073 Mine Planning <input type="checkbox"/>	MINING 3068 Mine Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>
YEAR 4	S1	C&ENVENG 2068 Environmental Engineering & Sustainability II CEME 1001 Introduction to Environmental Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>
	S2	MINING 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>
YEAR 5	S1	MINING 4222A Research Project Part A: Mining <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>
	S2	MINING 4222B Research Project Part B: Mining <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level II or III Maths Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

YEAR 6	S1	Level II or III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>	Level III Maths Elective <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	<input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	MINING 4107 Surface Mining Systems Not offered 2021 <input type="checkbox"/>	
SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering Not offered 2021 <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation
SUMMER	<input type="checkbox"/>			

#Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. The satisfactory completion of MATHS 1013 Mathematics IM is in addition to the normal requirements of this program. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester 1, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in Summer.

Mathematics electives may be chosen from those listed in the Program Rules for the degree of Bachelor of Mathematical and Computer Sciences.

RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in MINING 3222. The group then develop the Research Project in MINING 4222A Part A and MINING 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (MINING) WITH BACHELOR OF SCIENCE					
YEAR 1	S1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics	PHYSICS 1100 Physics IA <input type="checkbox"/>	GEOLOGY 1103 Building a Habitable Planet <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I <input type="checkbox"/>	PHYSICS 1200 Physics IB <input type="checkbox"/>	GEOLOGY 1100 Earth's Interior I <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids <input type="checkbox"/>	GEOLOGY 2500 Sedimentary Geology II <input type="checkbox"/>
	S2	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II CEME 2004 Intro to Geo-engineering (only available in S1) <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing <input type="checkbox"/>
YEAR 3	S1	MINING 3070 Resource Estimation <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	GEOLOGY 2501 Structural Geology II <input type="checkbox"/>
	S2	MINING 3073 Mine Planning <input type="checkbox"/>	MINING 3068 Mine Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	GEOLOGY 2502 Igneous and Metamorphic Geology II <input type="checkbox"/>
YEAR 4	S1	GEOLOGY 3016 Igneous and Metamorphic Geology III <input type="checkbox"/>	GEOLOGY 3500 Exploration Methods III <input type="checkbox"/>	GEOLOGY 3008 Geophysics III GEOLOGY 3022 Geophysics IIIA: Potential Fields & Geothermics <input type="checkbox"/>	GEOLOGY 3013 Tectonics III <input type="checkbox"/>
	S2	MINING 3222 Research Methodologies and Project Management ENG 3005 Research Methods and Project Management <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	GEOLOGY 3502 Mineral and Energy Resources III <input type="checkbox"/>	GEOLOGY 3019 Field Geoscience Program III <input type="checkbox"/>
YEAR 5	S1	MINING 4222A Research Project Part A: Mining <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

S2	MINING 4222B Research Project Part B: Mining <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	GEOLOGY 3505 Earth Systems History <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	<input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	MINING 4107 Surface Mining Systems Not offered 2021 <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>
SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering Not offered 2021 <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation
SUMMER	<input type="checkbox"/>			

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RESEARCH PROJECT INFORMATION

The 9 unit Research project must be undertaken in three consecutive semesters. Students form their groups and formulate their Research Proposal in MINING 3222. The group then develop the Research Project in MINING 4222A Part A and MINING 4222B Part B.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

BACHELOR OF ENGINEERING (HONOURS) (MINING) WITH BACHELOR OF SCIENCE – Semester 2 Start

YEAR 1	S2	MATHS 1011 Mathematics IA # <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I <input type="checkbox"/> ENG 1003 Programming (Matlab and Excel)	GEOLOGY 1100 Earth's Interior I <input type="checkbox"/>
YEAR 2	S1	MATHS 1012 Mathematics IB <input type="checkbox"/>	C&ENGENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics – Statics	PHYSICS 1100 Physics IA <input type="checkbox"/>	GEOLOGY 1103 Building a Habitable Planet <input type="checkbox"/>
	S2	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II <input type="checkbox"/> CEME 2004 Intro to Geo-engineering (only available in S1)	PHYSICS 1200 Physics IB <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing <input type="checkbox"/>
YEAR 3	S1	MINING 3071 Mining Systems <input type="checkbox"/>	C&ENVENG 2025 Strength of Materials II <input type="checkbox"/> CEME 2001 Strength of Materials	MECH ENG 2021 Thermo-Fluids <input type="checkbox"/>	MINING 3070 Resource Estimation <input type="checkbox"/>
	S2	MINING 3073 Mine Planning <input type="checkbox"/>	MINING 3068 Mine Ventilation <input type="checkbox"/>	SPATIAL 3010 Earth Observation III <input type="checkbox"/>	GEOLOGY 2502 Igneous and Metamorphic Geology II <input type="checkbox"/>
YEAR 4	S1	MATHS 2201 Engineering Mathematics IIA <input type="checkbox"/> MATHS 2106 Differential Equations for Engineers II	MINING 3072 Mining Geomechanics <input type="checkbox"/>	GEOLOGY 2501 Structural Geology II <input type="checkbox"/>	GEOLOGY 2500 Sedimentary Geology II <input type="checkbox"/>
	S2	MINING 3222 Research Methodologies and Project Management <input type="checkbox"/> ENG 3005 Research Methods and Project Management	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	GEOLOGY 3505 Earth Systems History <input type="checkbox"/>
YEAR 5	S1	MINING 4222A Research Project Part A: Mining <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	GEOLOGY 3013 Tectonics III <input type="checkbox"/>
	S2	MINING 4222B Research Project Part B: Mining <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	GEOLOGY 3502 Mineral and Energy Resources III <input type="checkbox"/>	GEOLOGY 3019 Field Geoscience Program III <input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

YEAR 6	S1	GEOLOGY 3016 Igneous and Metamorphic Geology III <input type="checkbox"/>	GEOLOGY 3500 Exploration Methods III <input type="checkbox"/>	GEOLOGY 3008 Geophysics III GEOLOGY 3022 Geophysics IIIA: Potential Fields & Geothermics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES				
SEMESTER 1	C&ENVENG 4056 Linear Geostatistics Not offered 2021 <input type="checkbox"/>	MINING 4107 Surface Mining Systems Not offered 2021 <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	
SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering Not offered 2021 <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management CEME 2006 Environmental Modelling and Simulation
SUMMER	<input type="checkbox"/>			

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RESEARCH PROJECT INFORMATION

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