

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

FOR ADVANCED STANDING - OFFICE USE ONLY								
<input checked="" type="checkbox"/> Please mark the box to indicate advanced standing granted (use <b>CONDITIONAL</b> to denote conditional advanced standing)								
Unspecified Elective Credit:	Level 1:	units	Level 2:	units	Level 3:	units	Level 4:	units
Student ID Number:			Student Name:			Date: 8/12/16		
Assessor Name:			Advanced Standing Granted: units			Remaining Program Duration: 5 years		
Applicant's Previous Institution:			Applicant's Previous Qualification:					
Assessor's Comments:								

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 (3 units) <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>
	S 2	ENV BIOL 1002 Ecological Issues I (3 units) <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I (3 units) <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>
YEAR 2	S 1	C&ENVENG 2071 Water Engineering II (3 units) <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II (3 units) <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>
	S 2	C&ENVENG 2070 Engineering Modelling & Analysis II (3 units) <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II (3 units) <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineers II (3 units) <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying (3 units) <input type="checkbox"/>
YEAR 3	S 1	ECON 3500 Resource and Environmental Economics III (3 units) <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management (3 units) <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology (3 units) <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering (3 units) <input type="checkbox"/>
	S 2	LAW 4100 Introduction to Environmental Law (3 units) <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III (3 units) <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III (3 units) <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management (3 units) <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 4222A Research Project Part A: Civil (3 units) <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV (3 units) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics (3 units) <input type="checkbox"/>	Level II or III Maths Elective (3 units) <input type="checkbox"/>

2017 STUDY PLAN

	S 2	C&ENVENG 4222B Research Project Part B: Civil (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation (3 units) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments (3 units) <input type="checkbox"/>
YEAR 5	S 1	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>
	S 2	Level II or III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB (3 units) <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design (3 units) <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering (3 units) <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining (3 units) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics (3 units)** <input type="checkbox"/>
	C&ENVENG 4097 Analysis of Rivers & Sediment Transport (3 units) <input type="checkbox"/> ^NOT OFFERED 2017	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	SOIL&WAT 3010 Remote Sensing III (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge (3 units) <input type="checkbox"/>	C&ENVENG 4115 Advanced Topics in Flood Hydrology (3 units) <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering (3 units) <input type="checkbox"/>
SUMMER	C&ENVENG 4106 Introduction to Geostatistics (3 units)** <input type="checkbox"/>	SOIL&WAT 3007WT GIS for Environmental Management III (3 units) <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

\*\* C&ENVENG 4106 Introduction to Geostatistics is a pre-requisite to C&ENVENG 4056 Linear Geostatistics.

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## 2017 STUDY PLAN



### 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.

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BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES (Maths Major)- Semester 2 Start					
YEAR 1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	S 2	ENV BIOL 1002 Ecological Issues I (3 units) <input type="checkbox"/>	C&ENVENG 1009 Civil & Environmental Engineering I (3 units) <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>
YEAR 2	S 1	GEOLOGY 1104 Geology for Engineers I (3 units) <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	C&ENVENG 1008 Engineering Planning & Design I (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>
	S 2	C&ENVENG 2070 Engineering Modelling & Analysis II (3 units) <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II (3 units) <input type="checkbox"/>	ENV BIOL 2005 Ecology for Engineers II (3 units) <input type="checkbox"/>	C&ENVENG 2067 Construction, Management & Surveying (3 units) <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG 2071 Water Engineering II (3 units) <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II (3 units) <input type="checkbox"/>	CHEM ENG 2017 Transport Processes in the Environment (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>
	S 2	LAW 4100 Introduction to Environmental Law (3 units) <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III (3 units) <input type="checkbox"/>	MATHS 2202 Engineering Mathematics IIB (3 units) <input type="checkbox"/>	Level II or III Maths Elective (3 units) <input type="checkbox"/>
YEAR 4	S 1	ECON 3500 Resource and Environmental Economics III (3 units) <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management (3 units) <input type="checkbox"/>	C&ENVENG 3077 Engineering Hydrology (3 units) <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering (3 units) <input type="checkbox"/>

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	S 2	C&ENVENG 3222 Research Methodologies and Project Management (3 units) <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III (3 units) <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation (3 units) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments (3 units) <input type="checkbox"/>
YEAR 5	S 1	C&ENVENG 4222A Research Project Part A: Civil (3 units) <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV (3 units) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics (3 units) <input type="checkbox"/>	Level II or III Maths Elective (3 units) <input type="checkbox"/>
	S 2	C&ENVENG 4222B Research Project Part B: Civil (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>
YEAR 6	S 1	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>

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	C&ENVENG 4097 Analysis of Rivers & Sediment Transport (3 units) <input type="checkbox"/> <b>^NOT OFFERED 2017</b>			
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management (3 units) <input type="checkbox"/>			
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