

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 CONDITIONAL 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 FINANCE					
YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I (3 units) <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>	ECON 1012 Principles in Economics I (3 units) <input type="checkbox"/>
	S2	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"/>	ENV BIOL 1002 Ecological Issues I (3 units) <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2068 Environmental Engineering & Sustainability II (3 units) <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets I (3 units) <input type="checkbox"/>
	S2	C&ENVENG 2070 Engineering Modelling & Analysis II (3 units) <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II (3 units) <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I (3 units) <input type="checkbox"/>	CORPFIN 1002 Business Finance I (3 units) <input type="checkbox"/>
YEAR 3	S1	C&ENVENG 3077 Engineering Hydrology (3 units) <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management (3 units) <input type="checkbox"/>	CORPFIN 2502 Business Valuation II (3 units) <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II (3 units) or MATHS 2103 Probability & Statistics (3 units) <input type="checkbox"/>
	S2	C&ENVENG 2067 Construction, Management & Surveying (3 units) <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III (3 units) <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law (3 units) <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>
YEAR 4	S1	CHEM ENG 4051 Water & Wastewater Engineering (3 units) <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II (3 units) <input type="checkbox"/>	Level III Finance Elective (3 units) <input type="checkbox"/>	Level III Finance Elective (3 units) <input type="checkbox"/>

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YEAR 5	S2	C&ENVENG 3222 Research Methodologies and Project Management (3 units) <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III (3 units) <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III (3 units) <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III * (3 units) <input type="checkbox"/>
	S1	C&ENVENG 4222A Research Project Part A: Civil (3 units) <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics (3 units) <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>
	S2	C&ENVENG 4222B Research Project Part B: Civil (3 units) <input type="checkbox"/>	C&ENVENG 4109 Designing Water Resource Systems for Urban Environments (3 units) <input type="checkbox"/>	C&ENVENG 4110 Soil & Groundwater Remediation (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	MINING 4104 Socio-Environmental Aspects of Mining (3 units) <input type="checkbox"/>	C&ENVENG 4073 Water Distribution Systems & Design (3 units) <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics (3 units)** <input type="checkbox"/>	C&ENVENG 4112 Advanced Civil Geotechnical Engineering (3 units) <input type="checkbox"/>
	Level II or III Mathematics Course (3 units) <input type="checkbox"/>	C&ENVENG 4097 Analysis of Rivers & Sediment Transport (3 units) <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	Level II or III Mathematics Course (3 units) <input type="checkbox"/>	C&ENVENG 4115 Advanced Topics in Flood Hydrology (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge (3 units) <input type="checkbox"/>	SOIL&WAT 3010 Remote Sensing III (3 units) <input type="checkbox"/>
	C&ENVENG 4085 Traffic Engineering (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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.

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*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.

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

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BACHELOR OF ENGINEERING (HONOURS) (CIVIL & ENVIRONMENTAL) WITH BACHELOR OF FINANCE - Semester 2 Start					
YEAR 1	S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	ENV BIOL 1002 Ecological Issues I (3 units) <input type="checkbox"/>
YEAR 2	S 1	C&ENVENG 1008 Engineering Planning & Design I (3 units) <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>	ECON 1012 Principles in Economics I (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"/>	ACCTING 1002 Introductory Accounting I (3 units) <input type="checkbox"/>	CORPFIN 1002 Business Finance I (3 units) <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG 2068 Environmental Engineering & Sustainability II (3 units) <input type="checkbox"/>	C&ENVENG 2071 Water Engineering II (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets I (3 units) <input type="checkbox"/>
	S 2	C&ENVENG 2067 Construction, Management & Surveying (3 units) <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III (3 units) <input type="checkbox"/>	C&ENVENG 3012 Geotechnical Engineering Design III (3 units) <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>
YEAR 4	S 1	C&ENVENG 3077 Engineering Hydrology (3 units) <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management (3 units) <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II (3 units) <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II (3 units) or <input type="checkbox"/>

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	S 2				MATHS 2103 Probability & Statistics (3 units)
		C&ENVENG 3222 Research Methodologies and Project Management (3 units) <input type="checkbox"/>	LAW 4100 Introduction to Environmental Law (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III * (3 units) <input type="checkbox"/>
YEAR 5	S 1	C&ENVENG 4222A Research Project Part A: Civil (3 units) <input type="checkbox"/>	CHEM ENG 4051 Water & Wastewater Engineering (3 units) <input type="checkbox"/>	CORPFIN 2502 Business Valuation II (3 units) <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III (3 units) <input type="checkbox"/>
	S 2	C&ENVENG 4222B Research Project Part B: Civil (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"/>	Level III Finance Elective (3 units) <input type="checkbox"/>
YEAR 6	S 1	C&ENVENG 4108 Environmental Systems Dynamics (3 units) <input type="checkbox"/>	C&ENVENG 4034 Engineering Management IV (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	Level III Finance Elective (3 units) <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

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	Level II or III Mathematics Course (3 units) <input type="checkbox"/>	C&ENVENG 4097 Analysis of Rivers & Sediment Transport (3 units) <input type="checkbox"/>		
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management (3 units) <input type="checkbox"/>			

^NOT OFFERED 2017

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SEMESTER 2	Level II or III Mathematics Course (3 units) <input type="checkbox"/>	C&ENVENG 4115 Advanced Topics in Flood Hydrology (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge (3 units) <input type="checkbox"/>	SOIL&WAT 3010 Remote Sensing III (3 units) <input type="checkbox"/>
	C&ENVENG 4085 Traffic Engineering (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>

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