

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:		
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) (MINING) WITH BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Maths Major)					
YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design I (3 units) <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers 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"/>
	S2	MECHENG 1007 Engineering Mechanics - Dynamics (3 units) <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I (3 units) <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>
YEAR 2	S1	C&ENVENG 2025 Strength of Materials II (3 units) <input type="checkbox"/>	C&ENVENG 2068 Environmental Engineering & Sustainability II (3 units) <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>
	S2	GEOLOGY 2504 Economic & Mine Geology II (3 units) <input type="checkbox"/>	C&ENVENG 2070 Engineering, Modelling & Analysis II (3 units) <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II (3 units) <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing (3 units) <input type="checkbox"/>
YEAR 3	S1	MINING 3070 Resource Estimation (3 units) <input type="checkbox"/>	MINING 3072 Mining Geomechanics (3 units) <input type="checkbox"/>	MINING 3071 Mining Systems (3 units) <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining (3 units) <input type="checkbox"/>
	S2	MINING 3073 Mine Planning (3 units) <input type="checkbox"/>	MINING 3068 Mine Ventilation (3 units) <input type="checkbox"/>	MINING 3069 Rock Breakage (3 units) <input type="checkbox"/>	MINING 3222 Research Methodologies and Project Management (3 units) <input type="checkbox"/>
YEAR 4	S1	MINING 4222A Research Project Part A: Mining (3 units) <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering (3 units) <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>

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	S2	MINING 4222B Research Project Part B: Mining (3 units) <input type="checkbox"/>	MINING 4101 Mine Management (3 units) <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>
YEAR 5	S1	Level II or III Maths Elective (3 units) <input type="checkbox"/>	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"/>
	S2	Level II or III Maths Elective (3 units) <input type="checkbox"/>	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"/>

CHOOSE FROM THE FOLLOWING ELECTIVES

SEMESTER 1	MINING 4113 Advanced Mine Ventilation (3 units) <input type="checkbox"/> ^NOT OFFERED 2017	C&ENVENG 4056 Linear Geostatistics (3 units)** <input type="checkbox"/>	MINING 4107 Surface Mining Systems (3 units) <input type="checkbox"/>	MINING 4110 Mine Asset Management & Services (3 units) <input type="checkbox"/>
SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUMMER	C&ENVENG 4106 Introduction to Geostatistics (3 units)** <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WINTER SCHOOL	MINING 4114 Simulation & Animation for Mining Engineers (3 units) <input type="checkbox"/> ^NOT OFFERED 2017	<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 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.

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

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BACHELOR OF ENGINEERING (HONOURS) (MINING) WITH BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES (Maths Major) – Semester 2 Start					
YEAR 1	S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		MECHENG 1007 Engineering Mechanics - Dynamics (3 units) <input type="checkbox"/>	C&ENVENG 1012 Engineering Modelling & Analysis I (3 units) <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>
YEAR 2	S 1	C&ENVENG 1008 Engineering Planning & Design I (3 units) <input type="checkbox"/>	GEOLOGY 1104 Geology for Engineers 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"/>
	S 2	GEOLOGY 2504 Economic & Mine Geology II (3 units) <input type="checkbox"/>	C&ENVENG 2070 Engineering, Modelling & Analysis II (3 units) <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering II (3 units) <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing (3 units) <input type="checkbox"/>
YEAR 3	S 1	C&ENVENG 2025 Strength of Materials II (3 units) <input type="checkbox"/>	MINING 3070 Resource Estimation (3 units) <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>
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YEAR 4	S 1	C&ENVENG 2068 Environmental Engineering & Sustainability II (3 units) <input type="checkbox"/>	MINING 3072 Mining Geomechanics (3 units) <input type="checkbox"/>	MINING 3071 Mining Systems (3 units) <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining (3 units) <input type="checkbox"/>

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	S 2	MINING 3222 Research Methodologies and Project Management (3 units) <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	Level II or III Maths Elective (3 units) <input type="checkbox"/>
YEAR 5	S 1	MINING 4222A Research Project Part A: Mining (3 units) <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering (3 units) <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility (3 units) <input type="checkbox"/>	Level II or III Maths Elective (3 units) <input type="checkbox"/>
	S 2	MINING 4222B Research Project Part B: Mining (3 units) <input type="checkbox"/>	Engineering Elective (3 units) <input type="checkbox"/>	Level III Maths Elective (3 units) <input type="checkbox"/>	Level II or III Maths Elective (3 units) <input type="checkbox"/>
YEAR 6	S 1	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"/>	Level III Maths Elective (3 units) <input type="checkbox"/>

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SEMESTER 2	MINING 4112 Advanced Mine Geotechnical Engineering (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneur's Challenge (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUMMER	C&ENVENG 4106 Introduction to Geostatistics (3 units)** <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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