

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: 6/12/16		
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) (PETROLEUM AND MECHANICAL)

YEAR 1	S1	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry (3 units) <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics - Statics (3 units) <input type="checkbox"/>	ELEC ENG 1101 Electronic systems (3 units) <input type="checkbox"/>	MATHS 1011 Mathematics IA (3 units)# <input type="checkbox"/>
	S2	MECH ENG 1007 Engineering Mechanics - Dynamics (3 units) <input type="checkbox"/>	MECH ENG 1006 Design Graphics & Professional Practice (3 units) <input type="checkbox"/>	PETROENG 1006 Introduction to Petroleum Engineering (3 units) <input type="checkbox"/>	MATHS 1012 Mathematics IB (3 units) <input type="checkbox"/>
YEAR 2	S1	MECH ENG 2100 Design Practice (3 units) <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA (3 units) <input type="checkbox"/>	PETROENG 2010 Drilling Engineering (3 units) <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I (3 units) <input type="checkbox"/>
	S2	CHEM ENG 1009 Materials I (3 units) <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties (3 units) <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers (3 units) <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design (3 units) <input type="checkbox"/>
YEAR 3	S1	PETROENG 3025 Reservoir Engineering (3 units) <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics (3 units) <input type="checkbox"/>	MECH ENG 3030 Structural Design & Solid Mechanics (3 units) <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing (3 units) <input type="checkbox"/>
	S2	MECH ENG 3027 Engineering Systems Design & Communication (3 units) <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy (3 units) <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I (3 units) <input type="checkbox"/>	PETROENG 3020 Production Engineering (3 units) <input type="checkbox"/>
YEAR 4	S1	Mechanical Engineering Elective (3 units)* <input type="checkbox"/>	MECH ENG 3105 Sustainability & the Environment (3 units) <input type="checkbox"/>	Mechanical Engineering Elective (3 units) <input type="checkbox"/>	Mechanical Engineering Elective (3 units) <input type="checkbox"/>

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	S2	Mechanical Engineering Elective (3 units)* <input type="checkbox"/>	Mechanical Engineering Elective (3 units)* <input type="checkbox"/>	Mechanical Engineering Elective (3 units) <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II (3 units) <input type="checkbox"/>
YEAR 5	S1	PETROENG 4004A Petroleum Engineering Honours Project Part 1 (3 units) <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis (3 units) <input type="checkbox"/>	Petroleum Engineering Elective (3 units) <input type="checkbox"/>	Petroleum Engineering Elective (3 units) <input type="checkbox"/>
	S2	PETROENG 4004B Petroleum Engineering Honours Project Part 2 (3 units) <input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economic Project (3 units) <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics (3 units) <input type="checkbox"/>	Petroleum Engineering Elective (3 units) <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES

SEMESTER 1	MECH ENG 4102 Advanced PID Control (3 units) <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis (3 units) <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations (3 units) <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications (3 units) <input type="checkbox"/>
	MECH ENG 4112 Combustion Technology & Emission Control (3 units) <input type="checkbox"/>	MECH ENG 4143A Mechanical Honours Project Part A (3 units) <input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures (3 units) <input type="checkbox"/>	MECH ENG 4124 Robotics M (3 units) <input type="checkbox"/>
	MECH ENG 4104 Advanced Topics in Fluid Mechanics (3 units) <input type="checkbox"/>	MECH ENG 4144 Renewable Fluid Power Technology (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	CHEM ENG 4032 Composites & Multiphase Polymers (3 units) <input type="checkbox"/> ^NOT OFFERED 2017	MECH ENG 4107 Airconditioning (3 units) <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering (3 units) <input type="checkbox"/>	MECH ENG 4114 Corrosion: Principles & Prevention (3 units) <input type="checkbox"/>
	MECH ENG 4115 Engineering Acoustics (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells (3 units) <input type="checkbox"/>	MECH ENG 4143B Mechanical Honours Project Part B (3 units) <input type="checkbox"/>
	MECH ENG 4145 Sustainable Thermal Technologies (3 units) <input type="checkbox"/>	ENTREP 3900 Entrepreneurs Challenge (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUMMER	MECH ENG 4126 Topics in Welded Structures (3 units) <input type="checkbox"/>	MECH ENG 4115 Engineering Acoustics (3 units) <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics (3 units) <input type="checkbox"/>	<input type="checkbox"/>

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CHOOSE FROM THE FOLLOWING PETROLEUM ENGINEERING ELECTIVES

SEMESTER 1	PETROENG 4035 Reservoirs, Resources & Reserves (3 units) <input type="checkbox"/>	PETROENG 3007 Well Testing & Pressure Transient Analysis (3 units) <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management IV (3 units) <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling (3 units) <input type="checkbox"/>
	PETROENG 3026 Formation Damage & Productivity Enhancement (3 units) <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	PETROENG 4037 Unconventional Resources & Recovery (3 units) <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation (3 units) <input type="checkbox"/>	PETROENG 3019 Structural Geology & Seismic Methods (3 units) <input type="checkbox"/>	MATHS 2104 Numerical Methods II (3 units) <input type="checkbox"/>
	PETROENG 3023 Well Completion & Stimulation (3 units) <input type="checkbox"/>	<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 school.

*Students who choose to complete a Mechanical Honours Project in addition to a Petroleum Honours project must undertake both MECH ENG 4143A Mechanical Honours Project Part A and MECH ENG 4143B Mechanical Honours Project Part B in lieu of 9 units of electives. Note completion of Part B is dependent on the completion of Part A in order for 9 units to count towards the program.