

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN



School of Petroleum

Semester 1 Start

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

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

[Bachelor of Engineering \(Honours\) \(Petroleum & Chemical\)](#)

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

[Bachelor of Engineering \(Honours\) \(Petroleum & Mechanical\)](#)

[Bachelor of Engineering \(Honours\) \(Petroleum\) and Bachelor of Science](#)

Semester 2 Start

Bachelor of Engineering (Honours) (Petroleum) – semester 2 start not available

Bachelor of Engineering (Honours) (Petroleum & Mining) – semester 2 start not available

Bachelor of Engineering (Honours) (Petroleum & Chemical) – semester 2 start not available

Bachelor of Engineering (Honours) (Petroleum, Civil & Structural) – semester 2 start not available

Bachelor of Engineering (Honours) (Petroleum & Mechanical) – semester 2 start not available

Bachelor of Engineering (Honours) (Petroleum) and Bachelor of Science – semester 2 start not available

International students in the Australian School of Petroleum present ENG 3003 Engineering Communication in lieu of other courses. Please refer to notes on the individual study plans for course replacement details.

PRE-2019 COMMENCER STUDY PLAN

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BACHELOR OF ENGINEERING (HONOURS) (PETROLEUM)									
YEAR 1	S1	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics - Statics	<input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry	<input type="checkbox"/>	MATHS 1011 Mathematics IA #	<input type="checkbox"/>	PHYSICS 1100 Physics IA ***	<input type="checkbox"/>
	S2	PETROENG 1006 Introduction to Petroleum Engineering	<input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers ENG 1003 Programming (Matlab & Excel)	<input type="checkbox"/>	MATHS 1012 Mathematics IB	<input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics	<input type="checkbox"/>
YEAR 2	S1	CHEM ENG 1007 Introduction to Process Engineering	<input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2201 Differential Equations for Engineers	<input type="checkbox"/>	MECH ENG 2021 Thermo-fluids I	<input type="checkbox"/>	PETROENG 2010 Drilling Engineering	<input type="checkbox"/>
	S2	MATHS 2104 Numerical Methods II MATHS 2107 Statistics & Numerical Methods	<input type="checkbox"/>	PETROENG 2001 Reservoir Thermodynamics & Fluid Properties	<input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petroleum Engineers – now only avail S1. Contact Ask ECMS	<input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties	<input type="checkbox"/>
YEAR 3	S1	PETROENG 3005 Reservoir Characterisation & Modelling	<input type="checkbox"/>	PETROENG 3007 Well Testing & Pressure Transient Analysis	<input type="checkbox"/>	PETROENG 3025 Reservoir Engineering	<input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement	<input type="checkbox"/>
	S2	PETROENG 3001 Reservoir Simulation	<input type="checkbox"/>	PETROENG 3019 Structural Geology & Seismic Methods PETROENG 2019 Structural Geology & Seismic Methods	<input type="checkbox"/>	PETROENG 3023 Well Completion & Simulation	<input type="checkbox"/>	PETROENG 3020 Production Engineering	<input type="checkbox"/>
YEAR 4	S1	PETROENG 4027 Decision Making & Risk Analysis	<input type="checkbox"/>	PETROENG 4035 Reservoirs, Resources & Reserves	<input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management	<input type="checkbox"/>	PETROENG 4004A Petroleum Engineering Honours Project Part 1	<input type="checkbox"/>
	S2	PETROENG 4037 Unconventional Resources & Recovery	<input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economics Project	<input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics	<input type="checkbox"/>	PETROENG 4004B Petroleum Engineering Honours Project Part 2	<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 school.

Administrative note only:

***International students present ENG 3003 Engineering Communication EAL in lieu of PHYSICS 1100 Physics IA.

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) (PETROLEUM) – Semester 2 Start

YEAR 1	S1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	S2	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers <input type="checkbox"/> ENG 1003 Programming (Matlab & Excel)	MATHS 1011 Mathematics IA # <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>
YEAR 1	S1	C&ENVENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics - Statics	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	PHYSICS 1100 Physics IA *** <input type="checkbox"/>
	S2	MATHS 2104 Numerical Methods II <input type="checkbox"/> MATHS 2107 Statistics & Numerical Methods	PETROENG 2001 Reservoir Thermodynamics & Fluid Properties <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petroleum Engineers – now only avail S1. Course advice will be required <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>
YEAR 2	S1	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA <input type="checkbox"/> MATHS 2201 Differential Equations for Engineers	MECH ENG 2021 Thermo-fluids I <input type="checkbox"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>
	S2	PETROENG 3001 Reservoir Simulation <input type="checkbox"/>	PETROENG 3019 Structural Geology & Seismic Methods <input type="checkbox"/> PETROENG 2019 Structural Geology & Seismic Methods	PETROENG 3023 Well Completion & Simulation <input type="checkbox"/>	PETROENG 3020 Production Engineering <input type="checkbox"/>
YEAR 3	S1	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	PETROENG 3007 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	PETROENG 4004A Petroleum Engineering Honours Project Part 1 <input type="checkbox"/>
	S2	PETROENG 4037 Unconventional Resources & Recovery <input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economics Project <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics <input type="checkbox"/>	PETROENG 4004B Petroleum Engineering Honours Project Part 2 <input type="checkbox"/>

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YEAR 4	S1	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>	PETROENG 4035 Reservoirs, Resources & Reserves <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management <input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>
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Administrative note only:

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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) (PETROLEUM AND MINING)					
YEAR 1	S1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers ENG 1003 Programming (Matlab & Excel) <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering I <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2201 Differential Equations for Engineers <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"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>
	S2	PETROENG 2009 Formation Evaluation, Petrophysics and Rock Properties <input type="checkbox"/>	MATHS 2104 Numerical Methods # MATHS 2107 Statistics & Numerical Methods <input type="checkbox"/>	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	C&ENVENG 2069 Geotechnical Engineering CEME 2004 Intro to Geo-engineering <input type="checkbox"/>
YEAR 3	S1	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 3070 Resource Estimation (3units) <input type="checkbox"/>
	S2	MINING 3068 Mine Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 3073 Mine Planning <input type="checkbox"/>
YEAR 4	S1	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	PETROENG 3007 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>
	S2	PETROENG 3020 Production Engineering <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation <input type="checkbox"/>	PETROENG 3019 Structural Geology & Seismic Methods PETROENG 2019 Structural Geology & Seismic Methods <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>

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YEAR 5	S1	PETROENG 4004A Petroleum Engineering Honours Project Part 1 <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management <input type="checkbox"/>	PETROENG 4027 Decision Making and Risk Analysis <input type="checkbox"/>	PETROENG 4035 Reservoirs, Resources & Reserves <input type="checkbox"/>
	S2	PETROENG 4004B Petroleum Engineering Honours Project Part 2 <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics <input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economics Project <input type="checkbox"/>	PETROENG 4037 Unconventional Resources & Recovery <input type="checkbox"/>

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BACHELOR OF ENGINEERING (HONOURS) (PETROLEUM AND CHEMICAL)

LEVEL 1	S1	CHEM 1100 Chemistry IA <input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>
	S2	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	CHEM 1200 Chemistry IB <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers ENG 1003 Programming (Matlab & Excel) <input type="checkbox"/>
LEVEL 2	S1	CHEM ENG 2018 Process Fluid Mechanics <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA MATHS 2201 Differential Equations for Engineers <input type="checkbox"/>	CHEM ENG 2010 Principles of Process Engineering <input type="checkbox"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>
	S2	CHEM ENG 2011 Process Engineering Thermodynamics <input type="checkbox"/>	MATHS 2104 Numerical Methods II MATHS 2107 Statistics & Numerical Methods <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>	CHEM ENG 2014 Heat & Mass Transfer <input type="checkbox"/>
LEVEL 3	S1	CHEM ENG 3035 Multi-Phase Fluid & Particle Mechanics <input type="checkbox"/>	CHEM ENG 3034 Kinetics & Reactor Design <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>
	S2	PETROENG 3001 Reservoir Simulation <input type="checkbox"/>	PETROENG 3020 Production Engineering <input type="checkbox"/>	CHEM ENG 3030 Simulation & Concept Design <input type="checkbox"/>	CHEM ENG 3031 Process Control & Instrumentation <input type="checkbox"/>
LEVEL 4	S1	CHEM ENG 3024 Professional Practice III <input type="checkbox"/>	Chemical or Petroleum Elective <input type="checkbox"/>	Chemical Elective * <input type="checkbox"/>	CHEM ENG 4050 Advanced Chemical Engineering <input type="checkbox"/>
	S2	CHEM ENG 4014 Plant Design Project (6 units) <input type="checkbox"/>		Chemical Elective * <input type="checkbox"/>	CHEM ENG 3033 Separation Processes <input type="checkbox"/>
LEVEL 5	S1	PETROENG 4004A Petroleum Engineering Honours Project Part 1 <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>	PETROENG 4035 Reservoirs Resources & Reserves <input type="checkbox"/>	Chemical or Petroleum Elective <input type="checkbox"/>

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S2	PETROENG 4004B Petroleum Engineering Honours Project Part 2 <input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economics Project <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics <input type="checkbox"/>	PETROENG 4037 Unconventional Resources & Recovery <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING PETROLEUM ENGINEERING ELECTIVES

SEMESTER 1	PETROENG 4033 Integrated Reservoir & Project Management IV <input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	PETROENG 3007 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 4038EX Unconventional Resources & Recovery Study Tour <input type="checkbox"/>
SEMESTER 2	PETROENG 3019 Structural Geology & Seismic Methods <input type="checkbox"/> PETROENG 2019 Structural Geology & Seismic Methods	PETROENG 3023 Well Completion & Stimulation <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CHOOSE FROM THE FOLLOWING CHEMICAL ENGINEERING ELECTIVES

SEMESTER 1	CHEM ENG 4053 Pinch Analysis & Process Synthesis <input type="checkbox"/>	CHEM ENG 4052 Food Process Engineering <input type="checkbox"/>	CHEM ENG 4056 Research Practice <input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	CHEM ENG 3036 Unit Operations Laboratory <input type="checkbox"/>	CHEM ENG 4032 Composite & Multiphase Polymers <input type="checkbox"/>	CHEM ENG 4054 Research Project <input type="checkbox"/>	<input type="checkbox"/>

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*Students who choose to complete a Chemical Honours Project in addition to a Petroleum Honours project must undertake both CHEM ENG 4056 Research Practice and CHEM ENG 4054 Research Project in lieu of 6 units of electives.

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BACHELOR OF ENGINEERING (HONOURS) (PETROLEUM, CIVIL AND STRUCTURAL)					
YEAR 1	S1	C&ENVENG 1008 Engineering Planning & Design IA ENG 1001 Introduction to Engineering	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry	MATHS 1011 Mathematics IA #	C&ENVENG 1010 Engineering Mechanics – Statics CEME 1004 Engineering Mechanics - Statics
	S2	C&ENVENG 1009 Civil & Environmental Engineering IA CEME 1002 Introduction to Infrastructure	COMP SCI 1201 Introduction to Programming for Engineers ENG 1003 Programming (Matlab & Excel)	MATHS 1012 Mathematics IB	PETROENG 1006 Introduction to Petroleum Engineering
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2201 Differential Equations for Engineers	C&ENVENG 2071 Water Engineering # CEME 2003 Civil Engineering Hydraulics	C&ENVENG 2025 Strength of Materials II CEME 2001 Strength of Materials	PETROENG 2010 Drilling Engineering
	S2	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties	C&ENVENG 2069 Geotechnical Engineering CEME 2004 Intro to Geo-engineering	PETROENG 2005 Sedimentology & Stratigraphy for Petroleum Engineers – now only avail S1. Course advice will be required	C&ENVENG 2030 Structural Mechanics CEME 2002 Structural Mechanics
YEAR 3	S1	PETROENG 3026 Formation Damage & Productivity Enhancement	PETROENG 3025 Reservoir Engineering	C&ENVENG 3005 Reinforced Concrete Design III	C&ENVENG 3001 Structural Mechanics III C&ENVENG 3020 Computer Analysis of Structures and Structural Dynamics
	S2	C&ENVENG 3007 Structural Steel Design	C&ENVENG 3012 Geotechnical Engineering Design III	PETROENG 3020 Production Engineering	PETROENG 3019 Structural Geology & Seismic Methods PETROENG 2019 Structural Geology & Seismic Methods
YEAR 4	S1	Civil Engineering Elective *	C&ENVENG 3077 Engineering Hydrology	C&ENVENG 4034 Civil Engineering Management IV	Civil Engineering Elective

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YEAR 5	S2	Civil Engineering Elective * <input type="checkbox"/>	Civil Engineering Elective <input type="checkbox"/>	MATHS 2104 Numerical Methods # MATHS 2107 Statistics & Numerical Methods <input type="checkbox"/>	C&ENVENG 3079 Water Engineering & Design III <input type="checkbox"/>
	S1	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>	PETROENG 4035 Reservoirs, Resources & Reserves <input type="checkbox"/>	PETROENG 4004A Petroleum Engineering Honours Project Part 1 <input type="checkbox"/>	Petroleum Engineering Elective <input type="checkbox"/>
	S2	PETROENG 4022 Integrated Field Development & Economics Project <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics <input type="checkbox"/>	PETROENG 4004B Petroleum Engineering Honours Project Part 2 <input type="checkbox"/>	Petroleum Engineering Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING PETROLEUM ENGINEERING ELECTIVES

SEMESTER 1	PETROENG 4033 Integrated Reservoir & Project Management IV <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	PETROENG 3007 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 4038EX Unconventional Resources & Recovery Study Tour <input type="checkbox"/>
SEMESTER 2	PETROENG 4037 Unconventional Resources & Recovery <input type="checkbox"/>	PETROENG 3023 Well Completion & Simulation <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation <input type="checkbox"/>	

CHOOSE FROM THE FOLLOWING CIVIL ENGINEERING ELECTIVES

SEMESTER 1	C&ENVENG 4073 Water Distribution Systems & Design <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	<input type="checkbox"/>
	CHEM ENG 4051 Water & Wastewater Engineering <input type="checkbox"/>	C&ENVENG 3029 Environmental Modelling & Management <input type="checkbox"/>	C&ENVENG 4108 Environmental Systems Dynamics <input type="checkbox"/>	<input type="checkbox"/>
	C&ENVENG 4112 Advanced Civil Geotechnical Engineering <input type="checkbox"/>	C&ENVENG 4056 Linear Geostatistics <input type="checkbox"/>	C&ENVENG 4222A Research Project A <input type="checkbox"/>	<input type="checkbox"/>
WINTER	C&ENVENG 4114 Advanced Hydrological Modelling & Water Resources Management <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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SEMESTER 2	C&ENVENG 4115 Advanced Topics in Flood Hydrology <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"/>	<input type="checkbox"/>
	C&ENVENG 4222B Research Project B <input type="checkbox"/>	C&ENVENG 4111 Structural Dynamics & Applications <input type="checkbox"/>	C&ENVENG 4085 Traffic Engineering <input type="checkbox"/>	C&ENVENG 3222 Research Methodologies and Project Management <input type="checkbox"/>
SUMMER	C&ENVENG 4106 Introduction to Geostatistics <input type="checkbox"/>	SOIL&WAT 3007WT GIS for Environmental Management III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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*Students who choose to complete a Civil Honours Project in addition to a Petroleum Honours project must undertake the following 3 courses C&ENVENG 3222 Research Methodologies and Project Management, C&ENVENG 4222A Research Project A and C&ENVENG 4222B Research Project B. The courses must be taken in the order commencing in semester 2. C&ENVENG 3222 is taken in lieu of C&ENVENG 3007 Structural Steel Design and C&ENVENG 4222A and C&ENVENG 4222B are presented in lieu of 6 units of electives. Note completion of Part B is dependent on the completion of Part A in order for 6 units to count towards the program.

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BACHELOR OF ENGINEERING (HONOURS) (PETROLEUM AND MECHANICAL)

YEAR 1	S1	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics – Statics <input type="checkbox"/> CEME 1004 Engineering Mechanics - Statics	ELEC ENG 1101 Electronic systems <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>
	S2	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>	MECH ENG 1006 Design Graphics & Professional Practice <input type="checkbox"/> ENG 1001 Introduction to Engineering	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>
YEAR 2	S1	MECH ENG 2100 Design Practice <input type="checkbox"/>	MATHS 2201 Engineering Mathematics IIA <input type="checkbox"/> MATHS 2201 Differential Equations for Engineers	PETROENG 2010 Drilling Engineering <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>
	S2	CHEM ENG 1009 Materials I <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers <input type="checkbox"/> ENG 1003 Programming (Matlab & Excel)	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>
YEAR 3	S1	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3026 Aerospace Materials & Structures <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petroleum Engineers <input type="checkbox"/>
	S2	MECH ENG 3027 Engineering Systems Design & Communication <input type="checkbox"/>	Mechanical Engineering Elective <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	PETROENG 3020 Production Engineering <input type="checkbox"/>
YEAR 4	S1	Mechanical Engineering Elective * <input type="checkbox"/>	MECH ENG 3105 Sustainability & the Environment <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	Mechanical Engineering Elective <input type="checkbox"/>
	S2	Mechanical Engineering Elective * <input type="checkbox"/>	Mechanical Engineering Elective * <input type="checkbox"/>	Mechanical Engineering Elective <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>
YEAR 5	S1	PETROENG 4004A Petroleum Engineering Honours Project Part 1 <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>	Petroleum Engineering Elective <input type="checkbox"/>	Petroleum Engineering Elective <input type="checkbox"/>

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S2	PETROENG 4004B Petroleum Engineering Honours Project Part 2 <input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economic Project <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics <input type="checkbox"/>	Petroleum Engineering Elective <input type="checkbox"/>
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CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES

SEMESTER 1	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications <input type="checkbox"/>
	MECH ENG 4112 Combustion Technology & Emission Control <input type="checkbox"/>	MECH ENG 4143A Mechanical Honours Project Part A <input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>
	<input type="checkbox"/>	MECH ENG 4144 Renewable Fluid Power Technology <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	<input type="checkbox"/>	MECH ENG 4107 Airconditioning <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	<input type="checkbox"/>
	MECH ENG 4115 Engineering Acoustics <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics <input type="checkbox"/>	MECH ENG 4143B Mechanical Honours Project Part B <input type="checkbox"/>	<input type="checkbox"/>
	MECH ENG 4145 Sustainable Thermal Technologies <input type="checkbox"/>	ENTREP 3900 Entrepreneurs Challenge <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SUMMER	MECH ENG 4126 Topics in Welded Structures <input type="checkbox"/>	MECH ENG 4115 Engineering Acoustics <input type="checkbox"/>	MECH ENG 4120 Fracture Mechanics <input type="checkbox"/>	<input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

CHOOSE FROM THE FOLLOWING PETROLEUM ENGINEERING ELECTIVES

SEMESTER 1	PETROENG 4035 Reservoirs, Resources & Reserves <input type="checkbox"/>	PETROENG 3007 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management IV <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>
	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	PETROENG 4038EX Unconventional Resources & Recovery Study Tour <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	PETROENG 4037 Unconventional Resources & Recovery <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation <input type="checkbox"/>	PETROENG 3019 Structural Geology & Seismic Methods PETROENG 2019 Structural Geology & Seismic Methods <input type="checkbox"/>	MATHS 2104 Numerical Methods MATHS 2107 Statistics & Numerical Methods <input type="checkbox"/>
	PETROENG 3023 Well Completion & Stimulation <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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*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.

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) (PETROLEUM) AND BACHELOR OF SCIENCE					
YEAR 1	S1	GEOLOGY 1103 Building a Habitable Planet <input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	MATHS 1011 Mathematics IA # <input type="checkbox"/>	PHYSICS 1100 Physics IA <input type="checkbox"/>
	S2	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	GEOLOGY 1100 Earth's Interior I <input type="checkbox"/>	MATHS 1012 Mathematics IB <input type="checkbox"/>	COMP SCI 1201 Introduction to Programming for Engineers- ENG 1003 Programming (Matlab & Excel) <input type="checkbox"/>
YEAR 2	S1	MATHS 2201 Engineering Mathematics IIA MATHS 2201 Differential Equations for Engineers <input type="checkbox"/>	C&ENVENG 1010 Engineering Mechanics—Statics CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>
	S2	MATHS 2202 Engineering Mathematics IIB MATHS 2107 Statistics & Num Methods II <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>	PETROENG 2001 Reservoir Thermodynamics & Fluid Properties <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petroleum Engineers – now only avail S1. Course advice will be required <input type="checkbox"/>
YEAR 3	S1	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	GEOLOGY 2501 Structural Geology II <input type="checkbox"/>
	S2	GEOLOGY 2505 Geochemistry <input type="checkbox"/>	GEOLOGY 2502 Igneous and Metamorphic Geology II <input type="checkbox"/>	PETROENG 3020 Production Engineering <input type="checkbox"/>	PETROENG 3019 Structural Geology & Seismic Methods PETROENG 2019 Structural Geology & Seismic Methods <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	GEOLOGY 3019 Field Geoscience Program III <input type="checkbox"/>	GEOLOGY 3505 Earth Systems History III <input type="checkbox"/>	SOIL&WAT 3010 Remote Sensing III GEOLOGY 3023 Geophysics IIIB Electromagnetics & Seismology or SPATIAL 3010 Earth Observation III <input type="checkbox"/>	GEOLOGY 3502 Mineral and Energy Resources III <input type="checkbox"/>

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



PRE-2019 COMMENCER STUDY PLAN

YEAR 5	S1	PETROENG 4004A Petroleum Engineering Honours Project Part 1 <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>	PETROENG 4035 Reservoirs, Resources & Reserves <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
	S2	PETROENG 4004B Petroleum Engineering Honours Project Part 2 <input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economics Project <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics (3units) <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ENGINEERING ELECTIVES

SEMESTER 1	PETROENG 3007 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management <input type="checkbox"/>	PETROENG 4038EX Unconventional Resources & Recovery Study Tour <input type="checkbox"/>	<input type="checkbox"/>
SEMESTER 2	PETROENG 4037 Unconventional Resources & Recovery <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation <input type="checkbox"/>	PETROENG 3023 Well Completion & Stimulation <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 school.

22/10/15 Administrative note only: Students will achieve a double major in Geology and Geophysics and Applied Geology but will not be recognised on the parchment at this stage due to set up as a combined degree that requires only one sub plan – in this case the sub plan recognised will be Petroleum. LS