

Bachelor of Engineering (Honours) (Petroleum) Study Plans — Semester 1 Start

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Bachelor of Engineering (Honours) (Petroleum) – Study Plan Notes

Internships

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

General Electives

How to choose an elective course in your area of interest?

Please refer to the steps via the link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Program Rules

For academic program rules please refer to the following website: <https://calendar.adelaide.edu.au/faculty/ecms>

Information and Enrolment Advice

Ask ECMS

Email: askecms@adelaide.edu.au

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Petroleum) with major in Civil Engineering

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	▲ ENG 1001 Introduction to Engineering <input type="checkbox"/>	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	CEME 1002 Introduction to Infrastructure <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petrol Engineers <input type="checkbox"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>
S 2	MATHS 2107 Statistics and Numerical Methods <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>	PETROENG 2001 Reservoir Thermodynamics & Fluid Properties <input type="checkbox"/>	CEME 2002 Structural Mechanics <input type="checkbox"/>
Year 3				
S 1	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	CEME 2003 Civil Engineering Hydraulics <input type="checkbox"/>	CEME 3001 Computer Analysis of Structures and Structural Dynamics <input type="checkbox"/>
S 2	PETROENG 3020 Production Engineering <input type="checkbox"/>	PETROENG 2019 Structural Geology & Seismic Methods <input type="checkbox"/>	CEME 2004 Introduction to Geo-engineering only avail S1. Course advice will be required <input type="checkbox"/>	CEME 3005 Advanced Civil Engineering Hydraulics <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	CEME 3002 Reinforced Concrete Design <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>
S 2	ENG 3005 Research Methods & Project Management <input type="checkbox"/>	CEME 3003 Structural Steel Design <input type="checkbox"/>	CEME 3006 Geotechnical Engineering <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation OR PETROENG 3023 Well Completion & Simulation <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PETROENG 4012 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir and Project Management <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>



S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	PETROENG 4037 Unconventional Resources and Recovery <input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economics Project <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics <input type="checkbox"/>
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Core Course	Major course	Elective (see table)
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^ **EAL:** Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

Bachelor of Engineering (Honours) (Petroleum) with major in Chemical Engineering

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	CHEM 1100 Chemistry 1A OR CHEM 1101 Foundations of Chemistry 1A <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	▲ ENG 1001 Introduction to Engineering <input type="checkbox"/>	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	CHEM 1200 Chemistry 1B OR CHEM 1201 Foundations of Chemistry 1B <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petrol Engineers <input type="checkbox"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>
S 2	MATHS 2107 Statistics and Numerical Methods <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>	CHEM ENG 2011 Process Engineering Thermodynamics <input type="checkbox"/>	CHEM ENG 2014 Heat and Mass Transfer <input type="checkbox"/>
Year 3				
S 1	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	CHEM ENG 2018 Process Fluid Mechanics <input type="checkbox"/>	CHEM ENG 2010 Principles of Process Engineering <input type="checkbox"/>
S 2	PETROENG 3020 Production Engineering <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation OR PETROENG 3023 Well Completions & Stimulation OR PETROENG 2019 Structural Geology & Seismic Methods <input type="checkbox"/>	CHEM ENG 3030 Process Synthesis & Design <input type="checkbox"/>	CHEM ENG 3033 Separation Processes Engineering <input type="checkbox"/>
Internship				
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Year 4				
S 1	CHEM ENG 4034 Professional Practice IV <input type="checkbox"/>	CHEM ENG 3034 Chemical Reactor Engineering <input type="checkbox"/>	CHEM ENG 3035 Fluid & Particle Mechanics OR PETRO ENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	CHEM ENG 4050 Advanced Chemical Engineering <input type="checkbox"/>



S 2	CHEM ENG 3036 Unit Operations	CHEM ENG 4014 Plant Design Project - 6 units	CHEM ENG 3031 Process Control & Instrumentation
Year 5			
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PETROENG 4012 Well Testing & Pressure Transient Analysis OR <input type="checkbox"/> PETRO ENG 3005 Reservoir Characterisation & Modelling	PETROENG 4033 Integrated Reservoir <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	PETROENG 4037 Unconventional Resources and Recovery <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>
		PETROENG 4022 Integrated Field Development & Economics Project <input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics <input type="checkbox"/>

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Bachelor of Engineering (Honours) (Petroleum) with major in Mechanical Engineering

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1001 Introduction to Engineering <input type="checkbox"/>	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petrol Engineers <input type="checkbox"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>	MECH ENG 2021 Thermo Fluids <input type="checkbox"/>
S 2	MATHS 2107 Statistics and Numerical Methods <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>	PETROENG 2001 Reservoir Thermodynamics & Fluid Properties <input type="checkbox"/>	CHEM ENG 1009 Materials 1 <input type="checkbox"/>
Year 3				
S 1	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement OR MECH ENG 3102 Heat & Transfer Thermodynamics <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>
S 2	PETROENG 3020 Production Engineering <input type="checkbox"/>	PETROENG 2019 Structural Geology & Seismic Methods <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>
S 2	ENG 3005 Research Methods & Project Management <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation OR PETRO ENG 3023 Well Completion & Simulation <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>	MECH ENG 4107 Air-conditioning <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PETROENG 4012 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>



S 2	ENG 4001B Research Project Part B	<input type="checkbox"/>	PETROENG 4037 Unconventional Resources and Recovery	<input type="checkbox"/>	PETROENG 4022 Integrated Field Development & Economics Project	<input type="checkbox"/>	PETROENG 4034 Petroleum Business & Project Economics	<input type="checkbox"/>
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Bachelor of Engineering (Honours) (Petroleum) with major in Mining Engineering

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry <input type="checkbox"/>	CEME 1004 Engineering Mechanics - Statics <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	PETROENG 1006 Introduction to Petroleum Engineering <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers <input type="checkbox"/>	PETROENG 2005 Sedimentology & Stratigraphy for Petrol Engineers <input type="checkbox"/>	PETROENG 2010 Drilling Engineering <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>
S 2	MATHS 2107 Statistics and Numerical Methods <input type="checkbox"/>	PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties <input type="checkbox"/>	PETROENG 2001 Reservoir Thermodynamics & Fluid Properties <input type="checkbox"/>	MECH ENG 3069 Rock Breakage <input type="checkbox"/>
Year 3				
S 1	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	MINING 3070 Resource Estimation <input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>
S 2	PETROENG 3020 Production Engineering <input type="checkbox"/>	PETROENG 2019 Structural Geology & Seismic Methods <input type="checkbox"/>	MINING 3073 Mine Planning <input type="checkbox"/>	MINING 3068 Mine Ventilation <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>
S 2	ENG 3005 Research Methods & Project Management <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation OR PETRO ENG 3023 Well Completion & Simulation <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PETROENG 4012 Well Testing & Pressure Transient Analysis <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir & Project Management <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	PETROENG 4037 <input type="checkbox"/>	PETROENG 4022 <input type="checkbox"/>	PETROENG 4034 <input type="checkbox"/>



Unconventional Resources and
Recovery

Integrated Field Development &
Economics Project

Petroleum Business & Project
Economics

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