



THE UNIVERSITY
of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Australian School of Petroleum

Semester 1 Start

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

[Bachelor of Engineering \(Honours\) \(Petroleum\) with major in Civil Engineering](#)

[Bachelor of Engineering \(Honours\) \(Petroleum\) with major in Chemical Engineering](#)

[Bachelor of Engineering \(Honours\) \(Petroleum\) with major in Mechanical Engineering](#)

[Bachelor of Engineering \(Honours\) \(Petroleum\) with major in Mining Engineering](#)

Bachelor of Engineering (Honours) (Petroleum)

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 I <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"/>	PETROENG 2019 Structural Geology & Seismic Methods <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	PETROENG 3020 Production Engineering <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation <input type="checkbox"/>	PETROENG 3023 Well Completion & Stimulation <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PETROENG 4033 Integrated Reservoir Management <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>	PETROENG 4012 Well Testing & Pressure Transient Analysis <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <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 and Recovery <input type="checkbox"/>



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2020 Study Plan

NOTES

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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 II (Mechanics 2) <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 (Structures 1) <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 <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 (6 units) of internship during the course of their studies – see note below				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation & Modelling <input type="checkbox"/>	CEME 3002 Reinforced concrete <input type="checkbox"/>	CEME 3004 Hydrology for Engineers <input type="checkbox"/>
S 2	ENG 3005 Research Method & 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"/>

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

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 <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 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 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 Interdisciplinary Professional 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 Simulation and Concept Design <input type="checkbox"/>	CHEM ENG 3033 Separation Processes <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below.				
Year 4				
S 1	CHEM ENG 4034 Chemical Engineering Professional Practice <input type="checkbox"/>	CHEM ENG 3034 Kinetics & Reactor Design <input type="checkbox"/>	CHEM ENG 3035 Multiphase Fluid & Particle Mechanics OR PETRO ENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	CHEM 4050 Advanced Chemical Engineering <input type="checkbox"/>
S 2	CHEM ENG 3036 Unit Operation Laboratory	CHEM ENG 4014 Plant Design Project - 6 units		CHEM ENG 3031 Process Control and Instrumentation

Cont.

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

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"/>	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 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 (enabling) <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 and design (enabling) <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional 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 3103 Advanced Manufacturing Systems <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	PETROENG 3001 Reservoir Simulation OR PETRO ENG 3023 Well Completion & Simulation <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	MECH ENG 4107 Air-conditioning <input type="checkbox"/>

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

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 <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 (6 units) of internship during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional 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 Method & Project Management	PETROENG 3001 Reservoir Simulation OR PETRO ENG 3023 Well Completion & Simulation	MINING 4101 Mine Management	MINING 4111 Coal Mine Design & Feasibility

Cont.

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

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 <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) and Bachelor of Science – no contents page needed

Bachelor of Engineering (Honours) (Petroleum) and Bachelor of Science

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"/>	Level I Science Elective <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"/>	Level I Science Elective <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"/>	GEOLOGY 2504 Economic and Mine Geology <input type="checkbox"/>
Year 3				
S 1	PETROENG 3025 Reservoir Engineering <input type="checkbox"/>	PETROENG 3026 Formation Damage & Productivity Enhancement <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	PETROENG 3020 Production Engineering <input type="checkbox"/>	Level II Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks (6 units) of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	PETROENG 3005 Reservoir Characterisation and Modelling <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>
S 2	PETROENG 3001 Reservoir Simulation or PETROENG 3023 Well Completion and Simulation or PETROENG 2019 Structural Geology and Seismic Methods <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>	Level III Science Elective <input type="checkbox"/>

Cont Bachelor of Engineering (Honours) (Petroleum) and Bachelor of Science

Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PETRENG 4033 Integrated Reservoir Management <input type="checkbox"/>	PETROENG 4027 Decision Making & Risk Analysis <input type="checkbox"/>	PETROENG 4012 Well Testing & Pressure Transient Analysis <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <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 and Recovery <input type="checkbox"/>

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