Petroleum Engineering (5341)

PTRLDS | 48 Units of Credit
Overview

The Graduate Diploma of Engineering Science program is designed for engineers and graduates wishing to develop and expand their knowledge and skills in their current area of expertise.* This will enable students to meet or maintain professional accreditation standards and to provide opportunities for continuing professional development, as well as the opportunity to interact with those at the cutting edge of their discipline.

Students will add breadth to their knowledge of engineering in general and expand their knowledge and skills in engineering management. Students will develop their technical knowledge and ability to analyse engineering problems. They will also gain further skills in solving engineering problems and justifying professional decisions.

The program articulates to the Masters of Engineering Science program with full credit for courses completed in the Graduate Diploma program. Students may exit from this proposed program with a Graduate Diploma award if they have completed the required course requirements. Alternatively they may elect to go on to complete the full Master's program. A minimum 65% average is generally required to articulate to the next level in the sequence.

Entry Requirements

Students need a recognised four year Bachelor degree in a relevant discipline of engineering. For entry details, please click here.

Why do a postgraduate course work program?

Whether you choose to undertake a Postgraduate Coursework program straight after your undergraduate studies, a few years into your career or as part of continuous professional development, it will help you to:

- excel in your field: by extending your knowledge with highly specialised training
- further develop key transferable skills: such as research and analysis, problem-solving, teamwork, management and communication
- expand your options: by complementing existing knowledge or retraining to open new career opportunities.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Engineering</th>
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<tbody>
<tr>
<td><strong>School</strong></td>
<td>School of Minerals &amp; Energy Resources Engineering</td>
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<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
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<tr>
<td><strong>Minimum Units of Credit</strong></td>
<td>48</td>
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<tr>
<td><strong>Specialisation Type</strong></td>
<td>Specialisation</td>
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Available in Program(s)

Program(s) in which this specialisation is available

Graduate Diploma in Engineering Science - GradDipEngSc  
5341 Engineering Science  
Faculty: Faculty of Engineering  
Campus: Kensington  
Units of Credit: 48  
Typical Duration: 1 Years
Specialisation Structure

Students must complete 48 UOC.

Core Courses

Students must take 24 UOC of the following courses.

PTRL5009  |  6 UOC
Well Drilling Equipment and Operations

PTRL5013  |  6 UOC
Petroleum Geology

PTRL5014  |  6 UOC
Petroleum Geophysics

PTRL5019  |  6 UOC
Fundamentals of Reservoir Engineering A

Advanced Disciplinary Knowledge Electives

Students must take at least 24 UOC of the following courses.

PTRL5003  |  6 UOC
Well Pressure Testing

PTRL5004  |  6 UOC
Numerical Reservoir Simulation

PTRL5006  |  6 UOC
Field Development Geology

PTRL5007  |  6 UOC
Fundamentals of Reservoir Engineering B

PTRL5010  |  6 UOC
Natural Gas Engineering

PTRL5011 | 6 UOC
Petroleum Production Engineering

PTRL5012 | 6 UOC
Enhanced Oil and Gas Recovery

PTRL5016 | 6 UOC
Well Completions and Stimulation

PTRL5021 | 6 UOC
Reservoir Characterisation

PTRL5022 | 6 UOC
Drilling Systems Design and Optimisation

PTRL5024 | 6 UOC
Drilling Fluids and Cementing Techniques

PTRL5100 | 6 UOC
Geomechanics A

PTRL5101 | 6 UOC
Petroleum Geomechanics B

PTRL5102 | 6 UOC
Digital Core Analysis

PTRL5107 | 6 UOC
Petrophysics

PTRL5119 | 6 UOC
Geothermal Engineering
Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Additional Information

Recognition of Prior learning (RPL)

A student may apply to the Program or Stream Authority for advanced standing or exemption as per the UNSW RPL Policy and Procedures. Program or Stream Authorities may grant up to 24UOC of advanced standing or exemption if they consider the student has prior learning (formal, informal or non-formal) where it can be demonstrated that the student has achieved equivalent learning outcomes to the particular course(s). Application for advanced standing or exemption would require substantiating evidence including documents such as academic records, continuing professional education, professional registration and statements of service from the employer.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179