Note: This guide is only available to students who are enrolled in the Petroleum Engineering program within the Bachelor of Engineering component of the Bachelor of Science and Bachelor of Engineering (51160) combined degree course prior to 2012.

Course details

Course Credit Points:

<table>
<thead>
<tr>
<th>Component</th>
<th>Required Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Engineering component</td>
<td>168-174 points</td>
</tr>
<tr>
<td>Bachelor of Arts component</td>
<td>114-120 points</td>
</tr>
<tr>
<td>Total required for this course</td>
<td>240-270 points</td>
</tr>
</tbody>
</table>

Students must complete the following:

- Bachelor of Engineering foundation core units - 36 points;
- All units in Table 6.2.2Oa (Petroleum Engineering core units) - 126 points;
- One unit from Group A in Table 6.2.2Ob - 6 points;
- A professional practicum of at least 12 weeks; and
- A Bachelor of Science component - 114-120 points

Please also refer to BE-BSc - Equivalence Table [PDF, 179.4 KB] for the relevant engineering program for units which are cross-credited between the courses.

All units have a value of 6 points unless noted otherwise. Unit availability may be subject to change. For the most up-to-date information, please consult the Timetable at http://www.timetable.uwa.edu.au/
### Semester One

#### Year One
- **MATH1010** Calculus and Linear Algebra (no longer offered)
- **PHYS1001** Physics for Scientists and Engineers (replaces PHYS1101 Advanced Physics A)
- **GENG1001** Introduction to Engineering Mechanics (Note 1)

#### Year Two
- **ENSC1001** Global Challenges in Engineering (replaces ENSC1001 Engineering Challenges in a Global World or GENG1003 Intro. to Prof. Eng.)
- **MATH2209** Calculus and Probability (Note 3)
- **CITS1001** Object-Oriented Programming and Software Eng (replaces CITS1200 Java Programming)

### Semester Two

#### Year One
- **MATH1020** Calculus, Statistics and Probability (no longer offered)
- **ENSC1002** Material Behaviour from Atoms to Bridges (replaces MATE1412 Materials Eng. 1)

#### Year Two
- **GENG1002** Introduction to Electrical and Electronic Engineering (Note 2)
- **MATH2020** Multivariable Calculus and Linear Algebra (Note 3)
- **CITS2401** Computer Analysis and Visualisation (replaces GENG2140 Mod. & Comp.Analy.for Eng.)

### Year Three
- **ENSC3004** Solid Mechanics (replaces CIVL2110 Statics and Solid Mechanics)
- **ENSC3003** Fluid Mechanics (replaces MECH2403 Thermofluids 2)

### Year Four
- **PETR3511** Reservoir Engineering (Note 4)
- **PETR3512** Reservoir Characterisation (Note 5)
- **MECH4429** Applied Engineering Thermodynamics (replaces MECH3401 Thermofluids 3)

### Year Five
- **OGE4500** Oil and Gas Engineering Project Part 1
- **PETR4512** Reservoir and Well Performance (Note 7)
- **PETR8510** Petroleum Geology (replaces EART3352 Petroleum Geology) (Note 8)

### Year Six
- **GENG5505** Project Management & Eng. Practice (replaces MECH4400 Eng. for Sustainable Development)

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**Note 1:** Students requiring GENG1001 must complete **ENSC2001** Motion, and **ENSC1002** Material Behaviour from Atoms to Bridges.

**Note 2:** Students requiring GENG1002 must complete **ENSC2002** Energy.

**Note 3:** Students who have completed MATH2209 but missing MATH2020 must complete **MATH1002** Mathematical Methods 2.

**Note 4:** PETR3511 is no longer offered, complete **OGE5503** Reservoir Engineering if required.

**Note 5:** PETR3512 is no longer offered, contact the ECM Student Office if required.

**Note 6:** PETR3510 is no longer offered, contact the ECM Student Office if required.

**Note 7:** Student requiring this unit should contact the School of Mechanical and Chemical Engineering.

**Note 8:** EART3352 (or PETR8510 Petroleum Geology) are no longer offered, complete a Group A or Group B option in Table 6.2.2Ob if required.

**Note 9:** OGE4500 is no longer offered. Students requiring this can substitute this with a Group A or Group B unit in Table 6.2.2Ob.
Table 6.2.2Ob—Petroleum Engineering options

<table>
<thead>
<tr>
<th>Group A</th>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/S</td>
<td>CHPR4404</td>
<td>Advanced Thermodynamics (replaces CHPR4531 Advanced Prediction of Fluid Properties)</td>
</tr>
<tr>
<td>N/A</td>
<td>CIVL3170</td>
<td>Introduction to Offshore Engineering (no longer offered)</td>
</tr>
<tr>
<td>S2</td>
<td>CIVL5505</td>
<td>Introduction to Design of Offshore Systems (replacing CIVL4170 Design of Offshore Systems)</td>
</tr>
<tr>
<td>S2</td>
<td>ENSC3018</td>
<td>Process Synthesis and Design (replaces CHPR4530 Process Systems)</td>
</tr>
<tr>
<td>S2</td>
<td>ENSC3019</td>
<td>Unit Operations and Unit Processes (replaces CHPR3530 Process Modules)</td>
</tr>
<tr>
<td>N/S</td>
<td>CHPR5522</td>
<td>Gas Processing 2 – Treating and LNG Production (replaces GENG4405 Numerical Methods and Modelling or CHPR3531 Process Modelling)</td>
</tr>
</tbody>
</table>

Key to availability of units:  
S1 = Semester one  
S2 = Semester two  
N/S = Non-standard Teaching Period, refer to handbook for details.  
N/A = Not available in 2015