Program Code

BEPCH

Program Minimum Units

120

Standard Duration

5 Years

Program Faculty

Faculty of Engineering, Computer and Math Sciences

AQF Level

08

Academic Year

2018

These Program Rules should be read in conjunction with the University's policies (http://www.adelaide.edu.au/policies).

Overview

Through this degree program students can combine the concepts of petroleum engineering with chemical engineering. The petroleum program integrates core petroleum engineering with geosciences and management and builds a strong foundation of mathematics, physics, geology, geophysics, computer applications and engineering principles. The chemical program will provide students with a background in the physical sciences, chemical engineering core disciplines, integrated design skills and research training.

Students are also required to complete 12 weeks of approved practical experience during their study. Graduates of the program qualify for professional membership of Engineers Australia. The Bachelor of Engineering (Honours) (Petroleum and Chemical) is an AQF Level 8 qualification with a standard full-time duration of 5 years.

Conditions

Condition of enrolment

Interruption of program: Students must apply for permission from the Executive Dean or delegate before taking a Leave of Absence. Any extension of the leave without approval will result in the loss of place in the program but an application may be made to be re-admitted to the program subject to the admission procedures in place at the time.

Academic Program Rules for Bachelor of Engineering (Honours) (Petroleum and Chemical) (BE(Hons)(PetrolChem))

There shall be a Bachelor of Engineering (Honours) (Petroleum and Chemical) (BE(Hons)(PetrolChem)).

Qualification Requirements
Academic Program

To qualify for the double degree of Bachelor of Engineering (Honours) (Petroleum and Chemical), the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 120 units, comprising:

1. Courses to the value of 120 units, including Core courses to the value of 108 units and Elective courses to the value of 12 units
2. A total of 12 weeks practical experience approved by the Faculty and of which a minimum 6 weeks should be under the supervision of a professional engineer
3. Unless exempted, international students are required to take ENG 3003 Engineering Communication EAL in lieu of either a core or elective course as advised by the Faculty
4. Students who have not undertaken SACE Stage 2 Specialist Mathematics (or equivalent) will be required to enrol in Mathematics IM, followed by Mathematics IA with Mathematics IB taken in Summer Semester to complete the Mathematics requirements at Level I. The satisfactory completion of Mathematics IM is in addition to the normal requirements of the Bachelor of Engineering (Honours)

Bachelor of Engineering (Honours) (Petroleum and Chemical)

To satisfy the requirements for Bachelor of Engineering (Honours) (Petroleum and Chemical) students must complete courses to the value of 120 units.

Core

All of the following courses must be completed:
CHEM 1100 Chemistry IA (3 units)
CHEM 1200 Chemistry IB (3 units)
CHEM ENG 1007 Introduction to Process Engineering (3 units)
CHEM ENG 2010 Principles of Process Engineering (3 units)
CHEM ENG 2011 Process Engineering Thermodynamics (3 units)
CHEM ENG 2014 Heat & Mass Transfer (3 units)
CHEM ENG 2018 Process Fluid Mechanics (3 units)
CHEM ENG 3024 Professional Practice III (3 units)
CHEM ENG 3030 Simulation and Concept Design (3 units)
CHEM ENG 3031 Process Control & Instrumentation (3 units)
CHEM ENG 3033 Separation Processes (3 units)
CHEM ENG 3034 Kinetics & Reactor Design (3 units)
CHEM ENG 3035 Multi-Phase Fluid & Particle Mechanics (3 units)
CHEM ENG 4014 Plant Design Project (6 units)
CHEM ENG 4050 Advanced Chemical Engineering (3 units)
COMP SCI 1201 Introduction to Programming for Engineers (3 units)
MATHS 1011 Mathematics IA (3 units)
MATHS 1012 Mathematics IB (3 units)
MATHS 2104 Numerical Methods II (3 units)
MATHS 2201 Engineering Mathematics IIA (3 units)
PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry (3 units)
PETROENG 1006 Introduction to Petroleum Engineering (3 units)
PETROENG 2009 Formation Evaluation, Petrophysics & Rock Properties (3 units)
PETROENG 2010 Drilling Engineering (3 units)
PETROENG 3001 Reservoir Simulation (3 units)
PETROENG 3005 Reservoir Characterisation & Modelling (3 units)
PETROENG 3020 Production Engineering (3 units)
PETROENG 3025 Reservoir Engineering (3 units)
PETROENG 4004A Petroleum Engineering Honours Project Part 1 (0 units)
PETROENG 4004B Petroleum Engineering Honours Project Part 2 (6 units)
PETROENG 4022 Integrated Field Development & Economics Project (3 units)
PETROENG 4027 Decision Making & Risk Analysis (3 units)
PETROENG 4034 Petroleum Business & Project Economics (3 units)
PETROENG 4035 Reservoirs, Resources & Reserves (3 units)
PETROENG 4037 Unconventional Resources & Recovery (3 units)

Chemical Electives

Courses to the value of at least 6 units from the following:
CHEM ENG 3036 Unit Operations Laboratory (3 units)
CHEM ENG 4032 Composite & Multiphase Polymers (3 units)
CHEM ENG 4052 Food Process Engineering (3 units)
CHEM ENG 4053 Pinch Analysis & Process Synthesis (3 units)
CHEM ENG 4054 Research Project (3 units)
CHEM ENG 4056 Research Practice (3 units)

Petroleum Electives

Courses to the value of up to 6 units may be taken from the following:
PETROENG 3007 Well Testing & Pressure Transient Analysis (3 units)
PETROENG 3019 Structural Geology & Seismic Methods (3 units)
PETROENG 3023 Well Completion & Stimulation (3 units)
PETROENG 3026 Formation Damage & Productivity Enhancement (3 units)
PETROENG 4033 Integrated Reservoir & Project Management (3 units)

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