

Bachelor of Engineering (Honours) (Chemical) with Bachelor of Science – Semester 2 Start

| Year 1 | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| S1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| S2 | MATHS 1011 Mathematics IA <input type="checkbox"/> | *CHEM 1200 Chemistry IB OR CHEM 1201 Foundations of Chemistry IB <input type="checkbox"/> | ^ENG 1001 Introduction to Engineering <input type="checkbox"/> | ~Level I Science Elective <input type="checkbox"/> |
| Year 2 | | | | |
| S1 | MATHS 1012 Mathematics IB <input type="checkbox"/> | *CHEM 1100 Chemistry IA OR CHEM 1101 Foundations of Chemistry IA <input type="checkbox"/> | CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/> | ~Level I Science Elective <input type="checkbox"/> |
| S2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | CHEM ENG 2011 Process Engineering Thermodynamics <input type="checkbox"/> | CHEM ENG 2014 Heat & Mass Transfer <input type="checkbox"/> | ~Level II Science Elective <input type="checkbox"/> |
| Year 3 | | | | |
| S1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CHEM ENG 2010 Principles of Process Engineering <input type="checkbox"/> | CHEM ENG 2018 Process Fluid Mechanics <input type="checkbox"/> | ENG 1003 Programming (Matlab & Excel) <input type="checkbox"/> |
| S2 | CHEM ENG 3033 Separation Process Engineering <input type="checkbox"/> | CHEM ENG 3030 Process Synthesis and Design <input type="checkbox"/> | CHEM ENG 3031 Process Control & Instrumentation <input type="checkbox"/> | ~Level II Science Elective <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 below elective table. | | | | |
| Year 4 | | | | |
| S1 | ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> | CHEM ENG 3034 Chemical Reactor Engineering <input type="checkbox"/> | ~Level II Science Elective <input type="checkbox"/> | ~Level II Science Elective <input type="checkbox"/> |
| S2 | CHEM ENG 3036 Unit Operations <input type="checkbox"/> | ~Level III Science Elective <input type="checkbox"/> | ~Level III Science Elective <input type="checkbox"/> | ~Level III Science Elective <input type="checkbox"/> |
| Year 5 | | | | |
| S1 | CHEM ENG 4056 Design Practice <input type="checkbox"/> | CHEM ENG 4034 Professional Practice IV <input type="checkbox"/> | CHEM ENG 4050 Advanced Chemical Engineering <input type="checkbox"/> | CHEM ENG 3035 Fluid & Particle Mechanics <input type="checkbox"/> |
| S2 | CHEM ENG 4054 Research Project <input type="checkbox"/> | CHEM ENG 4014 Plant Design Project (6 units) <input type="checkbox"/> | | Level IV Chemical Engineering Elective (see elective table) <input type="checkbox"/> |
| Year 6 | | | | |
| S1 | CHEM ENG 3029 Material Science and Engineering <input type="checkbox"/> | ~Level III Science Elective <input type="checkbox"/> | ~Level III Science Elective <input type="checkbox"/> | ~Level III Science Elective <input type="checkbox"/> |
| Core Courses | | Elective (see table) | | Double Degree Courses |

See study plan notes below elective table.

Electives Table

| Level IV Chemical Engineering Elective | | | | | |
|----------------------------------------|--------------------------|---------------------------------------------------|----|---------------|---------------------------------------|
| S1 | CHEM ENG 4046 | Combustion Processes | S2 | CHEM ENG 4048 | Biofuels, Biomass and Wastes |
| | CHEM ENG 4051 | Water and Wastewater Engineering | | CHEM ENG 4058 | Hydrometallurgy and Electrometallurgy |
| | CHEM ENG 4059 | Pyrometallurgy | | | |
| TBC | CHEM ENG 4074 | Brewery Engineering (not offered 2021) | | | |
| | CHEM ENG 4075 | Winery Engineering (not offered 2021) | | | |

NOTES

EAL: Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

Chemistry: Students with at least C+ in SACE Stage 2 Chemistry (or equivalent) must enrol in CHEM 1100 Chemistry IA and CHEM 1200 Chemistry IB. All other students must enrol into CHEM 1101 Foundations of Chemistry IA and CHEM 1201 Foundations of Chemistry IB.

Science Electives: Science Electives may be chosen from courses listed in the Program Rules for the degree of Bachelor of Science. Students must complete a major in accordance with the Program Rules for the Bachelor of Science: <https://calendar.adelaide.edu.au/faculty/sciences>

Internship: 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.

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>