

Bachelor of Engineering (Honours) (Chemical) with Bachelor of Science (Biotechnology)

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	*CHEM 1100 Chemistry IA <input type="checkbox"/> OR CHEM 1101 Foundations of Chemistry IA <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>	BIOLOGY 1101 Biology I: Molecules, Genes and Cells OR BIOLOGY 1401 Concepts in Biology <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	*CHEM 1200 Chemistry IB <input type="checkbox"/> OR CHEM 1201 Foundations of Chemistry IB <input type="checkbox"/>	▲ENG 1001 Introduction to Engineering <input type="checkbox"/>	BIOLOGY 1201 Biology I: Human Perspectives <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CHEM ENG 2018 Process Fluid Mechanics <input type="checkbox"/>	CHEM ENG 2010 Principles of Process Engineering <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	CHEM ENG 2011 Process Engineering Thermodynamics <input type="checkbox"/>	CHEM ENG 2014 Heat and Mass Transfer <input type="checkbox"/>	CHEM ENG 2015 Principles of Biotechnology II <input type="checkbox"/>
Year 3				
S 1	CHEM ENG 3034 Chemical Reactor Engineering <input type="checkbox"/>	CHEM ENG 3035 Fluid & Particle Mechanics <input type="checkbox"/>	BIOCHEM 2502 Biochemistry II (Biotechnology): Molecular & Cell Biology <input type="checkbox"/>	MICRO 2504 Microbiology II (Biotechnology) <input type="checkbox"/>
S 2	CHEM ENG 3036 Unit Operations <input type="checkbox"/>	CHEM ENG 3030 Process Synthesis and Design <input type="checkbox"/>	CHEM ENG 3031 Process Control and Instrumentation <input type="checkbox"/>	CHEM ENG 3033 Separation Process Engineering <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 on next page.				
Year 4				
S 1	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"/>	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>
S 2	CHEM ENG 4054 Research Project <input type="checkbox"/>	CHEM ENG 4014 Plant Design Project (6 units) <input type="checkbox"/>		BIOCHEM 2503 Biochemistry II (Biotechnology): Metabolism <input type="checkbox"/>
Year 5				
S 1	CHEM ENG 3029 Material Science and Engineering <input type="checkbox"/>	BIOCHEM 3000 Molecular & Structural Biology III (6 units) <input type="checkbox"/>		PHARM 3101 Biological & Psychosocial Factors in Addictions OR PHARM 3103 Drug Action & Therapeutics <input type="checkbox"/>
S 2	BIOCHEM 3001 Cancer, Stem Cells & Development (6 units) <input type="checkbox"/>		BIOTECH 3000 Biotechnology Practice III (6 units) <input type="checkbox"/>	

Core Courses Double Degree Course

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.

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>