

2022 Study Plan

Bachelor of Engineering (Honours) (Chemical) with Bachelor of Biotechnology - Semester 1 Start

Year 1				
S 1	MATHS 1011 Mathematics IA <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"/>	^ENG 1001 Introduction to Engineering <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	*CHEM 1200 Chemistry IB OR CHEM 1201 Foundations of Chemistry IB <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <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 Process Design II <input type="checkbox"/>	BIOCHEM 2502 Biochem II (Biotech): Molecular and Cell Biology <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"/>	BIOTECH 2010 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"/>	CHEM ENG 3029 Material Science and Engineering <input type="checkbox"/>	MICRO 2504 Microbiology II (Biotechnology) <input type="checkbox"/>
S 2	CHEM ENG 3033 Separation Process Engineering <input type="checkbox"/>	CHEM ENG 3030 Process Design III <input type="checkbox"/>	CHEM ENG 3031 Process Control & Instrumentation <input type="checkbox"/>	CHEM ENG 3036 Unit Operations Laboratory <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				
S 1	CHEM ENG 4056 Process Design IV <input type="checkbox"/>	CHEM ENG 4034 Chemical Engineering Practice <input type="checkbox"/>	CHEM ENG 4050 Advanced Chemical Engineering <input type="checkbox"/>	ENG 3005 Research Methods & Project Management <input type="checkbox"/>
S 2	CHEM ENG 4054 Research Project <input type="checkbox"/>	CHEM ENG 4014 Plant Design Project (6 units) <input type="checkbox"/>	<input type="checkbox"/>	BIOCHEM 2503 Biochemistry II (Biotechnology): Metabolism <input type="checkbox"/>
Year 5				
S 1	Level IV Chemical Engineering Elective (see elective table) <input type="checkbox"/>	BIOCHEM 3000 Molecular & Structural Biology III (6 units) <input type="checkbox"/>	<input type="checkbox"/>	Level III Biotechnology Elective (see elective table) <input type="checkbox"/>
S 2	Level III Biotechnology Elective (see elective table) <input type="checkbox"/>	Level III Biotechnology Elective (see elective table) <input type="checkbox"/>	BIOTECH 3000 Biotechnology Practice III (6 units) <input type="checkbox"/>	<input type="checkbox"/>

Core Courses	Elective (see table)	Double Degree Courses
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See study plan notes below elective table.

Electives Table

Level IV Chemical Engineering Elective					
S1	CHEM ENG 4051 MECH ENG 4112	Water and Wastewater Engineering Combustion Technologies & High Temperature Processes	S2	CHEM ENG 4048 CHEM ENG 4058	Biofuels, Biomass and Wastes Metallurgical Processes
TBC	CHEM ENG 4075	Winery Engineering (<i>not offered 2022</i>)	WS	CHEM ENG 4074	Brewery Engineering
Level III Biotechnology Elective					
S1	BIOINF 3005 BIOINF 3010	Transcriptomics Applications III Genomics Applications III	S2	BIOCHEM 3001 BIOINF 3000	Cancer, Stem Cells & Development III Bioinformatics III
TBC	BIOTECH 3010 BIOTECH 3020 BIOTECH 3030	Advanced Research Platforms III Molecular Microbiology and Vaccines III Protein Purification: Principles and Practice III			

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.

Internships: All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. Internships are self-sourced and further information can be found on the Engineering Internships web page: <https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering>.

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>