

Bachelor of Engineering (Honours)(Chemical) – All Majors with Bachelor of Mathematical and Computer Sciences – Computer Science Major

Semester 2 Start

[Bachelor of Engineering \(Honours\)\(Chemical\) with Bachelor of Mathematical and Computer Sciences – Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Chemical\) – Minerals Processing Major with Bachelor of Mathematical and Computer Sciences – Computer Science Major](#)

Bachelor of Engineering (Honours) (Chemical) with Bachelor of Mathematical and Computer Sciences – Computer Science Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	#MATHS 1011 Mathematics IA <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"/>	▲ENG 1001 Introduction to Engineering <input type="checkbox"/>
Year 2				
S 1	#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"/>	COMP SCI 1102 Object Oriented Programming <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 & Mass Transfer <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>
Year 3				
S 1	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"/>	Level 1 Elective <input type="checkbox"/>
S 2	CHEM ENG 3033 Separation Processes <input type="checkbox"/>	CHEM ENG 3030 Process Synthesis and Design <input type="checkbox"/>	CHEM ENG 3031 Process Control & Instrumentation <input type="checkbox"/>	CHEM ENG 2012 Pharmaceutical Production Processes or CHEM ENG 2019 Introduction to Minerals Processing or **ELEC ENG 3111 Distributed Generation Technologies <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CHEM ENG 3034 Chemical Reaction Engineering <input type="checkbox"/>	CHEM ENG 3035 Fluid & Particle Mechanics <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
S 2	CHEM ENG 3036 Unit Operations <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	Level I/II Science Elective <input type="checkbox"/>



Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CHEM ENG 4034 Process Engineering Practice <input type="checkbox"/>	CHEM ENG 4050 Advanced Chemical Engineering <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CHEM ENG 4014 Plant Design Project (3 units) <input type="checkbox"/>		Engineering Elective <input type="checkbox"/>
Year 6				
S 1	CHEM ENG 3XXX Particulate Processes <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Core Courses Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING CHEMICAL ENGINEERING ELECTIVES				
S 1	CHEM ENG 4046 Combustion Processes <input type="checkbox"/>	CHEM ENG 4051 Water and Wastewater Engineering <input type="checkbox"/>	CHEM ENG 4053 Pinch Analysis and Process Synthesis <input type="checkbox"/>	CHEM ENG 4059 Pyrometallurgy <input type="checkbox"/>
S 2	CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/>	CHEM ENG 4058 Hydrometallurgy and Electrometallurgy <input type="checkbox"/>		

NOTES

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

Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

Internships: 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. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

General Electives: How to choose an elective course in your area of interest? Please refer to the steps via the link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

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>

Bachelor of Engineering (Honours) (Chemical) – Minerals Processing Major with
Bachelor of Mathematical and Computer Sciences – Computer Science Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	#MATHS 1011 Mathematics IA <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"/>	▲ENG 1001 Introduction to Engineering <input type="checkbox"/>
Year 2				
S 1	#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"/>	COMP SCI 1102 Object Oriented Programming <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 & Mass Transfer <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>
Year 3				
S 1	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"/>	Level 1 Elective <input type="checkbox"/>
S 2	CHEM ENG 3033 Separation Processes <input type="checkbox"/>	CHEM ENG 3030 Process Synthesis and Design <input type="checkbox"/>	CHEM ENG 3031 Process Control & Instrumentation <input type="checkbox"/>	CHEM ENG 2019 Introduction to Minerals Processing <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship (6 units) during the course of their studies – see note below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CHEM ENG 3034 Chemical Reaction Engineering <input type="checkbox"/>	CHEM ENG 3035 Fluid & Particle Mechanics <input type="checkbox"/>	CEME 2004 Introduction to Geo-Engineering <input type="checkbox"/>
S 2	CHEM ENG 3036 Unit Operations <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	CHEM ENG 4034 Process Engineering Practice <input type="checkbox"/>	CHEM ENG 4050 Advanced Chemical Engineering <input type="checkbox"/>	CHEM ENG 4059 Pyrometallurgy <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CHEM ENG 4014 Plant Design Project (3 units) <input type="checkbox"/>		CHEM ENG 4058 Hydrometallurgy & Electrometallurgy <input type="checkbox"/>



Year 6			
S 1	CHEM ENG 3XXX Particulate Processes <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Core Courses	Major Courses	Double Degree Courses
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