

## Bachelor of Engineering (Honours) (Chemical) and Bachelor of Finance

Year 1				
S 1	#MATHS 1012 Mathematics IA <input type="checkbox"/>	*CHEM 1100 Chemistry IA <u>or</u> CHEM 1101 Foundations of Chemistry IA <input type="checkbox"/>	CHEM ENG 1007 Introduction to Process Engineering <input type="checkbox"/>	ACCTING 1002 Introductory Accounting <input type="checkbox"/>
S 2	#MATHS 1012 Mathematics IB <input type="checkbox"/>	*CHEM 1200 Chemistry IB <u>or</u> CHEM 1201 Foundations of Chemistry IB <input type="checkbox"/>	^ENG 1001 Introduction to Engineering <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>
Year 2				
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"/>	ECON 1012 Principles of Economics I <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"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CHEM ENG 3034 Kinetics and Reactor Design <input type="checkbox"/>	CHEM ENG 3035 Multi-Phase Fluid and Particle Mechanics <input type="checkbox"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
S 2	CHEM ENG 3036 Unit Operations Laboratory <input type="checkbox"/>	CHEM ENG 3030 Simulation & Concept Design <input type="checkbox"/>	CHEM ENG 3031 Process Control and Instrumentation <input type="checkbox"/>	CHEM ENG 3033 Separation Processes <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 4001A Research Project Part A <input type="checkbox"/>	CHEM ENG 4034 Chemical Engineering Professional Practice IV <input type="checkbox"/>	CHEM ENG 4050 Advanced Chemical Engineering <input type="checkbox"/>	ECON 2504 Intermediate Econometrics II <u>or</u> MATHS 2103 Probability & Statistics II <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
Year 5				
S 1	CHEM ENG 3037 Particulate Processes <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	CHEM ENG 4014 Plant Design Project (6 units) <input type="checkbox"/>		Engineering Elective (see elective table) <input type="checkbox"/>	CORPFIN 3502 Options, Futures & Risk Management <u>or</u> MATHS 3012 Financial Modelling Tools & Techniques <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

**\*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.

**# 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.

**Internship:** 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.

**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](mailto:askecms@adelaide.edu.au)

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>