

## CHECKLIST Bachelor of Engineering (Honours) Chemical Engineering Specialisation: Transition to new program (commencing 2024)

\* This checklist is for the BE(Hons) component for dual programs with Bachelor of Arts, Bachelor of Business Management, Bachelor of Commerce, Bachelor of Design, Bachelor of Economics, Bachelor of Information Technology

### Important Notes:

- The information contained in this document is intended as general advice only. Students must follow the program rules & requirements listed on the [Programs and Courses Website](#) relevant to the year they commence. This planner must be used in conjunction with your program duration course list and program rules.
- Students need to check future course offerings, prerequisites, incompatibilities and restrictions for all courses as these are subject to change.
- Students cannot take courses that are incompatible with courses already counted towards their program, and cannot count the same course twice.
- Please contact the relevant Faculty for information regarding the other component of your dual program.

For the BE(Hons) component, with a specialisation in Chemical Engineering:

(a) 56 units from the BE(Hons) component, comprising—

(i) 8 units for [BE\(Hons\) core courses](#), and

(ii) 36 units for a BE(Hons) [Chemical Engineering specialisation](#)

i) 34 units for all [Chemical Engineering Compulsory Courses](#), and;

ii) 2 units from [BE\(Hons\) Program Elective Courses](#) and;

iii) 8 to 12 units from [Chemical Engineering Advanced and Research Elective Courses](#) and;

iv) 0 to 4 units from any [Chemical Engineering Breadth Electives](#)

✓/X compl.	BE(Hons) Core Courses (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
8 units for all Core Courses						
	<b>ENGG1100</b> Professional Engineering	1,2	2		Course must be completed [ENGG1211 (4 units) will count as 2 units towards Part A in lieu of ENGG1100, and 2 units towards program electives]	
	<b>ENGG1001</b> Programming for Engineers or <b>CSSE1001</b> Introduction to Software Engineering	1,2	2		Course must be completed	
	<b>MATH1051</b> Calculus & Linear Algebra I or <b>MATH1071</b> Advanced Calculus & Linear Algebra I	1,2	2		Course must be completed	
	<b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations or <b>MATH1072</b> Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		Course must be completed	

Once you have completed the BE(Hons)/Bxx Transition Plan – Chemical Engineering NEW (Commencing 2024) checklist, you may either email your checklist to the Faculty on [enquiries@eait.uq.edu.au](mailto:enquiries@eait.uq.edu.au) or book an appointment with an Academic Advisor directly.

## Specialisation in Chemical Engineering

Complete 48 units comprising:

- i) 34 units for all [Chemical Engineering Compulsory Courses](#), and;
- ii) 2 units from [BE\(Hons\) Program Elective Courses](#) and;
- iii) 8 to 12 units from [Chemical Engineering Advanced and Research Elective Courses](#) and;
- iv) 0 to 4 units from any [Chemical Engineering Breadth Electives](#)

✓/x compl.	Chemical Engineering Specialisation (36 units)	Sem offering	#	First offered	Approved substitution	Last offered
34 units for all Compulsory Courses						
	CHEM1100 Chemistry 1	1,2	2		Course must be completed	
	ENGG1500 Thermodynamics: Energy and the Environment	1,2	2		ENGG1500 Engineering Thermodynamics	
	CHEE2001 Process Principles	2	2		Course must be completed	
	CHEE2003 Fluid & Particle Mechanics	1	2		Course must be completed	
	CHEE2010 Engineering Investigation & Statistical Analysis	1	2		Course must be completed	
	CHEE2020 Process Equipment & Control Systems	2	2		CHEE4060 Process & Control System Synthesis (discontinued)	1/23
	CHEE2030 Chemical Thermodynamics	2	2		CHEE3003 Chemical Thermodynamics (discontinued)	1/22
	CHEE2040 Heat & Mass Transfer	2	2		CHEE3002 Heat & Mass Transfer (discontinued)	1/22
	CHEM2056 Physical Chemistry for Engineering	2	2		Course must be completed	
	CHEE3004 Unit Operations	1	2		Course must be completed	
	CHEE3005 Reaction Engineering	1	2		Course must be completed	
	CHEE3007 Process Modelling & Dynamics	2	2		Course must be completed	
	CHEE3020 Process Systems Analysis	2	2		Course must be completed	
	CHEE4001 Process Engineering Design Project	2	4		Course must be completed	
	CHEE4002 Risk in Process Industries	1	2		Course must be completed	
	ENGG4901 Professional Practice and the Business Environment A Or ENGG4902 Professional Practice and the Business Environment B	1,2	2	1/24	ENGG4900 Professional Practice and the Business Environment (discontinued)	2/23

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2 units from Program Electives

8 to 12 units from Chemical Engineering Advanced and Research Courses

<b>BIOE3001</b> Quantitative Methods in Biomedical Engineering	2	2		No substitution	
<b>BIOE4020</b> Bioprocess Engineering	1	2		No substitution	
<b>BIOE6028</b> Metabolic Engineering	2	2		<b>CHEE4028</b> Metabolic Engineering (discontinued)	<b>2/20</b>
<b>BIOE6034</b> Cell and Tissue Engineering	1	2		<b>CHEE4034</b> Cell & Tissue Engineering (discontinued)	<b>1/20</b>
<b>BIOE4305</b> Biomaterials: Materials in Medicine	2	2		<b>CHEE4305</b> Biomaterials: Materials in Medicine (discontinued)	<b>2/20</b>
<b>CHEE3008</b> Special Topics C	1,2	2		No substitution	
<b>CHEE3301</b> Polymer Engineering	1	2		No substitution	
<b>CHEE4003</b> Special Topics A	2	2		No substitution	
<b>CHEE4009</b> Transport Phenomena	1	2		No substitution	
<b>ENVE3150</b> Environmental Systems Dynamics & Modelling	2	2		No substitution	
<b>ENVE3160</b> Environmental Phenomena	1	2		No substitution	
<b>ENVE4610</b> Engineering the Circular Economy	1	2	<b>1/24</b>	No substitution	
<b>METL3219</b> Process Mineralogy and Comminution	1	2		No substitution	
<b>METL3220</b> Physical Separations and Interfacial Engineering	2	2		No substitution	
<b>ENGY4000</b> Energy Systems	1	2		No substitution	
<b>MATE6301</b> Nanomaterials	2	2		<b>CHEE4301</b> Nanomaterials (discontinued)	<b>2/20</b>
<b>MATE4302</b> Electrochemistry and Corrosion	2	2		<b>CHEE4302</b> Electrochemistry & Corrosion (discontinued)	<b>2/20</b>
<b>MECH4304</b> Net Shape Manufacturing	1	2		No substitution	
<b>METL6204</b> Hydrometallurgy and Electrometallurgy	1	2		No substitution	
<b>METL6212</b> Pyrometallurgy	1,2	2		No substitution	

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	<b>WATR6103</b> Advanced Wastewater and Biosolids Treatment	2	2		No substitution	
	<b>CHEE4006</b> Research Project	1	2		No substitution	
	<b>CHEE4007</b> Research Project	2	2		No substitution	
	<b>CHEE4026</b> Research Thesis	1	4		No substitution	
	<b>CHEE4027</b> Research Thesis	2	4		No substitution	

0 to 4 units from Chemical Engineering Breadth Electives						
	<b>CIVL2135</b> Introduction to Environmental Engineering	1	2		No substitution	
	<b>ENVM2100</b> Foundations of Sustainable Development	2	2		No substitution	
	<b>ENVM3201</b> Catchment Processes & Management	1	2		No substitution	
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	2	2		No substitution	
	<b>ERTH2004</b> Structural Geology	1	2		No substitution	
	<b>ERTH3250</b> Groundwater Processes and Resources	1	2		No substitution	
	<b>GEO1000</b> Fundamentals of Geographic Information & Technologies	2	2		No substitution	
	<b>GEO2001</b> Geographical Information Systems	1	2		No substitution	
	<b>GEO1100</b> Environment & Society	1,2	2		No substitution	
	<b>GEO2100</b> Environmental Systems	1	2		No substitution	
	<b>GEO3102</b> Global Change: Problems & Prospects	2	2		No substitution	

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