

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

* 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

Full name: _____ Student Number: _____ Date: _____

Points to note

- You need to ensure that you meet minimum program and major requirements (listed below)
- You cannot count the same course twice
- You need to ensure that you don't take courses that are incompatible with courses that you have already counted towards your program, and that any prerequisites have been met
- Please ensure you read the program rules to check for any special rules with your dual program, as course restrictions may apply
- **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, and
- (iii) 12 units for specified BE(Hons) Chemical Engineering electives

✓/X compl.	You must complete (NEW Program requirements)	Sem offering	#	First offered	Approved substitution	Last offered
	8 units for all: Core Courses					
	ENGG1100 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]	
	ENGG1001 Programming for Engineers (NEW) or CSSE1001 Introduction to Software Engineering	1,2	2	1/21	Course must be completed	
	MATH1051 Calculus & Linear Algebra I or MATH1071 Advanced Calculus & Linear Algebra I	1,2	2		Course must be completed	
	MATH1052 Multivariate Calculus & Ordinary Differential Equations or MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		Course must be completed	

✓ - course already completed X – course to be undertaken

Checked by (Faculty: Name and Date): _____

Chemical Engineering specialisation (36 units)

✓/X compl.		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 (will change to semester 1 in 2022)	2	2		Course must be completed	
	CHEE2010 Engineering Investigation & Statistical Analysis (will change to semester 1 in 2022)	2	2		Course must be completed	
	CHEE2020 Process Equipment & Control Systems (NEW)(from 2022)	2	2	2/22	CHEE4060 Process & Control System Synthesis (discontinued)	1/23
	CHEE2030 Chemical Thermodynamics	2	2	2/22	CHEE3003 Chemical Thermodynamics (discontinued)	1/22
	CHEE2040 Heat & Mass Transfer	2	2	2/22	CHEE3002 Heat & Mass Transfer (discontinued)	1/22
	CHEM2056 Physical Chemistry for Engineering	2	2		Course must be completed	
	CHEE3004 Unit Operations (will change to semester 1 in 2023)	2	2		Course must be completed	
	CHEE3005 Reaction Engineering (will change to semester 1 in 2023)	2	2		Course must be completed	
	CHEE3007 Process Modelling & Dynamics	2	2		Course must be completed	
	CHEE3020 Process Systems Analysis (will change to semester 2 in 2023)	1	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	
	ENGG4900 Professional Practice and the Business Environment	1,2	2		Course must be completed	
	2 units from Program Electives					

Once you have completed the checklist, you may either email your checklist to the Faculty on enquiries@eait.uq.edu.au or book an appointment with an Academic Advisor directly.

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Chemical Engineering Electives

Complete 12 units comprising -

- i. 8 to 12 units from Chemical Engineering Advanced Electives or Chemical Engineering Research Electives; and
- ii. 0 to 4 units from any Chemical Engineering Breadth Electives

✓/x compl.	8 to 12 units from: Chemical Engineering Advanced Electives or Chemical Engineering Research Electives	Sem offering	#	First offered	Approved substitution	Last offered
	Chemical Engineering Advanced Electives					
	BIOE6028 Metabolic Engineering	2	2	2/21	CHEE4028 Metabolic Engineering (discontinued)	2/20
	BIOE6034 Cell and Tissue Engineering	1	2	1/21	CHEE4034 Cell & Tissue Engineering (discontinued)	1/20
	BIOE4305 Biomaterials: Materials in Medicine	2	2	2/21	CHEE4305 Biomaterials: Materials in Medicine (discontinued)	2/20
	CHEE3008 Special Topics C	1,2	2		No substitution	
	CHEE3301 Polymer Engineering	1	2		No substitution	
	CHEE4003 Special Topics A	2	2		No substitution	
	CHEE4009 Transport Phenomena	1	2		No substitution	
	CHEE4012 Industrial Wastewater & Solid Waste Management	2	2		No substitution	
	CHEE4020 Bioprocess Engineering	1	2		No substitution	
	CHEE4022 Principles of Adsorption	2	2		No substitution	
	CHEE4303 Interface and Colloid Science and Engineering	2	2		No substitution	
	ENGG3500 Reservoir Engineering	2	2		No substitution	
	ENGY4000 Energy Systems	1	2		No substitution	
	MATE6301 Nanomaterials	2	2	2/21	CHEE4301 Nanomaterials (discontinued)	2/20
	MATE4302 Electrochemistry and Corrosion	2	2	2/21	CHEE4302 Electrochemistry & Corrosion (discontinued)	2/20
	MECH4304 Net Shape Manufacturing	1	2		No substitution	
	MINE3208 Physical Separation Processes	2	2		MINE3208 Mineral and Coal Beneficiation	
	MINE3212 Pyrometallurgy	2	2		No substitution	
	MINE3219 Process Mineralogy and Comminution	1	2		No substitution	
	MINE4203 Flotation	1	2		No substitution	

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	MINE4204 Hydrometallurgy and Electrometallurgy	1	2		MINE4204 Aqueous Solution Processes	
✓/X compl.	Chemical Engineering Research Electives	Sem offering	#	First offered	Approved substitution	Last offered
	CHEE4006 Research Project	1	2		No substitution	
	CHEE4007 Research Project	2	2		No substitution	
	CHEE4026 Research Thesis	1	4		No substitution	
	CHEE4027 Research Thesis	2	4		No substitution	

✓/X compl.	0 to 4 units from any: Chemical Engineering Breadth Electives	Sem offering	#	First offered	Approved substitution	Last offered
	ENGG4103 Engineering Asset Management	1	2		No substitution	
	CHEM1200 Chemistry 2	1,2,S	2		No substitution	
	FIRE3700 Introduction to Fire Safety Engineering	2	2		No substitution	
	FOOD2000 Food Science	1	2		No substitution	
	FOOD3007 Food Structure & Sensory Science	2	2		No substitution	
	FOOD3011 Food Product Development	2	2		No substitution	
	FOOD3017 Food Policy, Safety & Quality Management	1	2		No substitution	
	MATH2001 Calculus & Linear Algebra II	1,2,S	2		MATH2000 Calculus & Linear Algebra II (discontinued)	
	METR3100 Control System Implementation	2	2		No substitution	
	MICR2000 Microbiology & Immunology	2	2		No substitution	
	MICR2001 Food Microbiology I	2	2		No substitution	

Chemical Engineering Breadth Electives can also be chosen from course lists for the following majors:

- Biomedical Engineering
- Bioprocess Engineering
- Environmental Engineering
- Materials Engineering
- Metallurgical Engineering

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