

## CHECKLIST Bachelor of Engineering (Honours)/BBiotech (2486): Transition to new program (commencing 2024)

\* This checklist is for the BE(Hons) component of the dual program ONLY

### 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 of the dual program:

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

- (i) 8 units for all [BE\(Hons\) Core Courses](#), and
- (ii) 36 units for one Specialisation from [Chemical Engineering Specialisation](#), and
- (iii) 2 units from [Chemical Engineering Extension Courses](#), and
- (iv) 8 to 10 units from [Chemical Engineering Advanced or Research Elective Courses](#), and
- (v) 0 to 2 units from [Chemical Engineering Breadth Elective Courses](#)

✓/x compl.	BE(Hons) Core Courses (8 units)	Sem offering	#	First offered	Approved substitution	Last offered
<b>8 units for all Core Courses</b>						
	<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	

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## Specialisation in Chemical Engineering

Complete 56 units comprising:

- i. 34 units for all [Chemical Engineering Compulsory Courses](#), and
- ii. 2 units from [BE\(Hons\) Program Elective Courses](#), and
- iii. 2 units from [Chemical Engineering Extension Courses](#), and
- iv. 8 to 10 units from [Chemical Engineering Advanced or Research Elective Courses](#), and
- v. 0 to 2 units from [Chemical Engineering Breadth Elective Courses](#)

✓/X compl.	Chemical Engineering Specialisation (36 units)	Sem offering	#	First offered	Approved substitution	Last offered
34 units for all Compulsory Courses						
	ENGG1500 Thermodynamics: Energy and the Environment	1,2	2		ENGG1500 Engineering Thermodynamics	
	CHEM1100 Chemistry 1	1,2	2		Course must be completed	
	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	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	
	ENGG4900 Professional Practice and the Business Environment A Or ENGG4900 Professional Practice and the Business Environment B	1 2	2 2	1/24	ENGG4900 Professional Practice and the Business Environment (discontinued)	2/23

2 units from BE(Hons) Program Elective Courses

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2 units for Chemical Engineering Extension Courses					
	<b>BIOE1001</b> Principles of Biomedical & Bioprocess Engineering	1	2		<b>CHEE1001</b> Principles of Biological Engineering (discontinued)
	<b>BIOL1020</b> Genes, Cells & Evolution	1,2	2		No substitution

8 to 10 units from Chemical Engineering Advanced Electives or Chemical Engineering Research Elective Courses					
	<b>BIOE3001</b> Quantitative Methods in Biomedical Engineering	2	2		No substitution
	<b>BIOE4020</b> Bioprocess Engineering	1	2		No substitution
	<b>BIOE4305</b> Biomaterials: Materials in Medicine	2	2		<b>CHEE4305</b> Biomaterials: Materials in Medicine (discontinued) <b>2/20</b>
	<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>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>ENGY4000</b> Energy Systems	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>MATE4302</b> Electrochemistry and Corrosion	2	2		<b>CHEE4302</b> Electrochemistry & Corrosion (discontinued) <b>2/20</b>
	<b>MATE6301</b> Nanomaterials	2	2		<b>CHEE4301</b> Nanomaterials (discontinued) <b>2/20</b>
	<b>MECH4304</b> Net Shape Manufacturing	1	2		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

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	<b>METL6204</b> Physical Separations and Interfacial Engineering	1	2		No substitution	
	<b>METL6212</b> Pyrometallurgy	1,2	2		No substitution	
	<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 2 units from any Chemical Engineering Breadth Electives						
	<b>CHEM1200</b> Chemistry 2	1,2,S	2		No substitution	
	<b>ENGG4103</b> Engineering Asset Management	1	2		No substitution	
	<b>ERTH1501</b> Earth Processes & Geological Materials for Engineers	1	2		No substitution	
	<b>FIRE3700</b> Introduction to Fire Safety Engineering	2	2		No substitution	
	<b>FOOD2000</b> Food Science	1	2		No substitution	
	<b>FOOD3011</b> Food Product Development	2	2		No substitution	
	<b>FOOD3017</b> Food Policy, Safety & Quality Management	1	2		No substitution	
	<b>MATH2001</b> Calculus & Linear Algebra II	1,2,S	2		<b>MATH2000</b> Calculus & Linear Algebra II (discontinued)	
	<b>METR3100</b> Control System Implementation	2	2		No substitution	
	<b>MICR2000</b> Microbiology & Immunology	2	2		No substitution	
	<b>MICR2001</b> Food Microbiology I	2	2		No substitution	
	<b>MINE3110</b> Integrated Orebody Knowledge	2	2		No substitution	
	<b>Chemical Engineering Breadth Electives can also be chosen from course lists for the following majors:</b> <ul style="list-style-type: none"> <li>○ Biomedical Engineering</li> <li>○ Bioprocess Engineering</li> <li>○ Environmental Engineering</li> <li>○ Materials Engineering</li> <li>○ Metallurgical Engineering</li> </ul>					

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