

CHECKLIST Bachelor of Engineering (Honours) – Chemical Engineering (2342): Completion of pre-2021 program

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

You must complete for the BE(Hons) (Chemical Engineering) - a Single Major (CHEMIX2342) or Extended Major (CHEMIY2342), or Major & Minor, 64 units comprising -

- a. a major - 52 units, comprising-
- 48 units, being all courses from part A (listed below), and
 - 4 units from a combination of parts B4 and B5 electives, and
- b. balance from electives
- a minimum of 4 units from courses on the BE(Hons) list, other than courses on the Chemical Engineering part B0 list, and
 - a maximum of 4 units from courses on the Chemical Engineering part B0 list, and
 - a maximum of 4 units from level one courses not on the BE(Hons) list

OR

- a. an extended major - 60 units, comprising-
- 48 units, being all courses from part A (listed below), and
 - 4 units from a combination of parts B4 and B5 electives, with a minimum of 2 units from part B5 and
 - 8 units from the combination of part B1, B2, and B4 electives, with a minimum of 4 units from the combination of part B2 and B4, and
- b. balance from electives-

OR

- a. a major and a minor - 60 units, comprising-
- 48 units, being all courses from part A (listed below), and
 - 4 units from a combination of parts B4 and B5 electives with a minimum of 2 units from part B5, and
 - 8 units in accordance with the minor course list for Food Engineering, and
- b. balance from electives

PART A

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/X compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	48 units, being all courses from: Part A - compulsory							
	ENGG1100 Engineering Design (2) and ENGG1200 Engineering Modelling & Problem Solving (2) (discontinued) OR ENGG1211 Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2	2/20 2/20	ENGG1100 Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2		
	MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	2		MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I	1,2	2		
	MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	2		MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		

✓ - course already completed X – course to be undertaken

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	CHEM1100 Chemistry 1	2		CHEM1100 Chemistry 1	1,2	2			
	ENGG1500 Engineering Thermodynamics	2		ENGG1500 Thermodynamics: Energy and the Environment	1,2	2			
	CHEE2001 Process Principles	2		CHEE2001 Process Principles	1,2	2			
	CHEM1200 Chemistry 2	2		CHEM1200 Chemistry 2	1,2,S	2			
	MATH2000 Calculus & Linear Algebra II (discontinued) OR MATH2001 Advanced Calculus & Linear Algebra II	2	2/20	MATH2001 Calculus & Linear Algebra II	1,2,S	2			
	CHEE2003 Fluid & Particle Mechanics	2		CHEE2003 Fluid & Particle Mechanics (will change to semester 1 in 2022)	2	2			
	CHEE2010 Engineering Investigation & Statistical Analysis	2		CHEE2010 Engineering Investigation & Statistical Analysis (will change to semester 1 in 2022)	2	2			
	CHEM2056 Physical Chemistry for Engineering	2		CHEM2056 Physical Chemistry for Engineering	1	2			
	CHEE3002 Heat & Mass Transfer (discontinued)	2	1/22	CHEE2040 Heat & Mass Transfer	2	2		2/22	
	CHEE3003 Chemical Thermodynamics (discontinued)	2	1/22	CHEE2030 Chemical Thermodynamics	2	2		2/22	
	CHEE3020 Process Systems Analysis	2		CHEE3020 Process Systems Analysis (will change to semester 2 in 2023)	1	2			
	CHEE3004 Unit Operations	2		CHEE3004 Unit Operations (will change to semester 1 in 2023)	2	2			
	CHEE3005 Reaction Engineering	2		CHEE3005 Reaction Engineering (will change to semester 1 in 2023)	2	2			
	CHEE3007 Process Modelling & Dynamics	2		CHEE3007 Process Modelling & Dynamics	2	2			
	CHEE4002 Risk in Process Industries	2		CHEE4002 Risk in Process Industries	1	2			
	CHEE4009 Transport Phenomena	2		CHEE4009 Transport Phenomena	1	2			
	CHEE4060 Process & Control System Synthesis (discontinued)	2	1/23	CHEE2020 Process Equipment & Control Systems (NEW)	2	2		2/22	
	ENGG4900 Professional Practice and the Business Environment	2		ENGG4900 Professional Practice and the Business Environment	1,2	2			
	CHEE4001 Process Engineering Design Project	4		CHEE4001 Process Engineering Design Project	2	4			
Part A units completed pre-2021:				Part A units to be substituted/completed:					
				Total – Part A (must add up to 48):					

PART B

✓/x compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/x compl.
	CHEM1090 Introductory Chemistry	2		CHEM1090 Introductory Chemistry	1	2		
	MATH1050 Mathematical Foundations	2		MATH1050 Mathematical Foundations	1,2	2		
	PHYS1171 Physical Basis of Biological Systems	2		PHYS1171 Physical Basis of Biological Systems	1,2	2		

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

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✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	BIOL1040 Cells to Organisms	2		BIOL1040 Cells to Organisms	1,2	2		
	CHEE1001 Principles of Biological Engineering (discontinued)	2	1/20	BIOE1001 Principles of Biomedical & Bioprocess Engineering	1	2	1/21	
	CSSE1001 Introduction to Software Engineering	2		CSSE1001 Introduction to Software Engineering OR ENGG1001 Programming for Engineers	1,2	2	1/21	
	ENGG1300 Introduction to Electrical Systems	2		ENGG1300 Introduction to Electrical Systems	1,2	2		
	ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)	2	2/20	ENGG1700 Statics and Materials	1,2	2	1/21	
	ENGG1600 Introduction to Research Practices - The Big Issues	2		ENGG1600 Introduction to Research Practices - The Big Issues	2	2		
	ENGG2000 Humanitarian Engineering	2		ENGG2000 Humanitarian Engineering	2	2		
	ENVM1522 Carbon and Energy Management	2		ENVM1522 Carbon and Energy Management	2	2		
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		ERTH1501 Earth Processes & Geological Materials for Engineers	1	2		
	PHYS1002 Electromagnetism and Modern Physics	2		PHYS1002 Electromagnetism and Modern Physics (semester 2 only from 2022)	1,2	2		
✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	BIOC2000 Biochemistry & Molecular Biology	2		BIOC2000 Biochemistry & Molecular Biology	1	2		
	BIOL2202 Genetics	2		BIOL2202 Genetics	2	2		
	CHEE2501 Environmental Systems Engineering I: Processes (discontinued)	2	2/20	ENVE2501 Environmental Systems	2	2	2/21	
	CHEE3008 Special Topics C	2		CHEE3008 Special Topics C	1,2	2		
	CHEE3301 Polymer Engineering	2		CHEE3301 Polymer Engineering	1	2		
	CHEE4003 Special Topics A	2		CHEE4003 Special Topics A	2	2		
	CHEE4015 Special Topics VII (discontinued)	1	2/21	Any BE Elective				
	CIVL3141 Hydrology and Hydrological Risk (discontinued)	2	2/23	CIVL3155 Hydrology & Free Surface Flows (NEW)	2	2	2/22	
	ENGG4103 Engineering Asset Management	2		ENGG4103 Engineering Asset Management	1	2		
	ENVM3103 Regulatory Frameworks for Environmental Management & Planning	2		ENVM3103 Regulatory Frameworks for Environmental Management & Planning	1	2		
	FOOD2000 Food Science	2		FOOD2000 Food Science	1	2		
	FOOD3007 Food Structure & Sensory Science	2		FOOD3007 Food Structure & Sensory Science	2	2		
	FOOD3008 Food Process Engineering II	2		FOOD3008 Food Process Engineering II	2	2		
	FOOD3011 Food Product Development	2		FOOD3011 Food Product Development	2	2		

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	FOOD3017 Food Policy, Safety & Quality Management	2		FOOD3017 Food Policy, Safety & Quality Management	1	2		
	MECH2310 Science & Engineering of Metals	2		MECH2310 Science & Engineering of Metals	2	2		
	MICR2000 Microbiology & Immunology	2		MICR2000 Microbiology & Immunology	2	2		
	MICR2001 Food Microbiology I	2		MICR2001 Food Microbiology I	2	2		
	MINE2201 Physical & Chemical Processing of Minerals	2		MINE2201 Metal Production and Recycling	2	2		
	MINE3211 Special Topics in Minerals Processing II (discontinued)	2	2/20	Any BE Elective				
	MINE3212 Pyrometallurgy	2		MINE3212 Pyrometallurgy	2	2		
	MINE3219 Process Mineralogy and Comminution	2		MINE3219 Process Mineralogy and Comminution	1	2		
	MINE4207 Special Topics in Minerals Processing I (discontinued)	1	2/20	Any BE Elective				

✓/x compl.	Part B4 - Advanced Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/x compl.
	CHEE4012 Industrial Wastewater & Solid Waste Management	2		CHEE4012 Industrial Wastewater & Solid Waste Management	2	2		
	CHEE4020 Biomolecular Engineering	2		CHEE4020 Bioprocess Engineering	1	2		
	CHEE4022 Principles of Adsorption	2		CHEE4022 Principles of Adsorption	2	2		
	CHEE4034 Cell & Tissue Engineering (discontinued)	2	1/20	BIOE6034 Cell and Tissue Engineering	1	2	1/21	
	CHEE4301 Nanomaterials (discontinued)	2	2/20	MATE6301 Nanomaterials	2	2	2/21	
	CHEE4302 Electrochemistry & Corrosion (discontinued)	2	2/20	MATE4302 Electrochemistry and Corrosion	2	2	2/21	
	CHEE4303 Interface and Colloid Science and Engineering	2		CHEE4303 Interface and Colloid Science and Engineering	1	2		
	CHEE4305 Biomaterials: Materials in Medicine (discontinued)	2	2/20	BIOE4305 Biomaterials: Materials in Medicine	2	2	2/21	
	ENGG3500 Reservoir Engineering	2		ENGG3500 Reservoir Engineering	2	2		
	ENGY4000 Energy Systems	2		ENGY4000 Energy Systems	1	2		
	MECH4304 Net Shape Manufacturing	2		MECH4304 Net Shape Manufacturing	1	2		
	MINE4203 Flotation	2		MINE4203 Flotation	1	2		
	MINE4204 Aqueous Solution Processes	2		MINE4204 Hydrometallurgy and Electrometallurgy	1	2		

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✓/X compl.	Part B5 - Advanced Research Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	CHEE4006 Individual Inquiry	2		CHEE4006 Research Project	1	2		
	CHEE4007 Individual Inquiry	2		CHEE4007 Research Project	2	2		
	CHEE4026 Thesis Project	4		CHEE4026 Research Thesis	1	4		
	CHEE4027 Thesis Project	4		CHEE4027 Research Thesis	2	4		

Minors

Students enrolled in a minor field of study are required to obtain the major, plus an additional 8 units as set out below for the minor.

✓/X compl.	Minor – Food Engineering	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	6 units from: Group A - Compulsory							
	CHEE1001 Principles of Biological Engineering (discontinued)	2	1/20	BIOE1001 Principles of Biomedical & Bioprocess Engineering	1	2	1/21	
	MICR2001 Food Microbiology I	2		MICR2001 Food Microbiology I	2	2		
	FOOD2000 Food Science	2		FOOD2000 Food Science	1	2		
	2 units from: Group B							
	FOOD3007 Food Structure & Sensory Science	2		FOOD3007 Food Structure & Sensory Science	2	2		
	FOOD3008 Food Process Engineering II	2		FOOD3008 Food Process Engineering II	2	2		
	FOOD3011 Food Product Development	2		FOOD3011 Food Product Development	2	2		
	FOOD3017 Food Policy, Safety & Quality Management	2		FOOD3017 Food Policy, Safety & Quality Management	1	2		

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