

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

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

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
- **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 BE(Hons) core courses, and

(ii) 36 units for a BE(Hons) specialisation in Chemical Engineering, and

(iii) 12 units comprising—

(A) 2 units for Chemical Engineering Extension Courses, and

(B) 8 to 10 units from Chemical Engineering Advanced Electives or Chemical Engineering Research Electives, and

(C) 0 to 2 units from Chemical Engineering Breadth 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): _____

2021 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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Complete 12 units comprising -

- i. 2 units for Chemical Engineering Extension Courses, and
- ii. 8 to 10 units from Chemical Engineering Advanced Electives or Chemical Engineering Research Electives; and
- iii. 0 to 2 units from any Chemical Engineering Breadth Electives

| ✓/X compl. | 2 units for: Chemical Engineering Extension Courses | Sem offering | # | First offered | Approved substitution | Last offered |
|------------|---|--------------|---|---------------|--|--------------|
| | BIOE1001 Principles of Biomedical & Bioprocess Engineering or BIOL1020 Genes, Cells & Evolution | | 2 | | CHEE1001 Principles of Biological Engineering (discontinued) | |
| | 8 to 10 units from: Chemical Engineering Advanced Electives or Chemical Engineering Research Electives | | | | | |
| | 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 | |
| | ENVE3150 Environmental Systems Dynamics & Modelling | | 2 | | | |
| | ENVE3160 Environmental Phenomena | | 2 | | | |
| | ENVE4610 Engineering the Circular Economy | | 2 | | | |
| | MATE6301 Nanomaterials | 2 | 2 | 2/21 | CHEE4301 Nanomaterials (discontinued) | 2/20 |

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| | | | | | | |
|------------|--|--------------|---|---------------|---|--------------|
| | 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 | |
| | 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 2 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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