

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

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.

You must complete for the BE(Hons) (Chemical & Biological Engineering Plan code: CHBIOW2342), 64 units comprising -

- 60 units being all courses from [part A - compulsory](#) (listed below), and
- 4 units 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 |
|--|---|-------------|--------------|---|--------------|--------|---------------|
| 60 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 4 | 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 2 | | MATH1051 Calculus & Linear Algebra I OR MATH1071 Advanced Calculus & Linear Algebra I | 1,2 1 | 2 2 | |
| | MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations | 2 2 | | MATH1052 Multivariate Calculus & Ordinary Differential Equations OR MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations | 1,2 2 | 2 2 | |
| | CHEM1100 Chemistry 1 | 2 | | CHEM1100 Chemistry 1 | 1,2 | 2 | |
| | ENGG1500 Engineering Thermodynamics | 2 | | ENGG1500 Thermodynamics: Energy and the Environment | 1,2 | 2 | |
| | CHEE1001 Principles of Biological Engineering (discontinued) | 2 | 1/20 | BIOE1001 Principles of Biomedical & Bioprocess Engineering | 1 | 2 | 1/21 |
| | BIOC2000 Biochemistry & Molecular Biology | 2 | | BIOC2000 Biochemistry & Molecular Biology | 1 | 2 | |
| | CHEE2001 Process Principles | 2 | | CHEE2001 Process Principles | 1,2 | 2 | |
| | CHEM1200 Chemistry 2 | 2 | | CHEM1200 Chemistry 2 | 1,2 | 2 | |
| | MATH2000 Calculus & Linear Algebra II (discontinued) OR MATH2001 Advanced Calculus & Linear Algebra II | 2 | 2/20 | MATH2001 Calculus & Linear Algebra II | 1,2 | 2 | |
| | BIOL2202 Genetics | 2 | | BIOL2202 Genetics | 2 | 2 | |
| | CHEE2003 Fluid & Particle Mechanics | 2 | | CHEE2003 Fluid & Particle Mechanics | 1 | 2 | |

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| | | | | | | |
|--|---|------|--|--------|--------|--------------|
| CHEE2010 Engineering Investigation & Statistical Analysis | 2 | | CHEE2010 Engineering Investigation & Statistical Analysis | 1 | 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 | 2 | 2 | |
| CHEE4020 Biomolecular Engineering (discontinued) | 2 | 1/21 | BIOE4020 Bioprocess Engineering | 1 | 2 | 1/22 |
| CHEE3004 Unit Operations | 2 | | CHEE3004 Unit Operations | 1 | 2 | |
| CHEE3005 Reaction Engineering | 2 | | CHEE3005 Reaction Engineering | 1 | 2 | |
| CHEE3007 Process Modelling & Dynamics | 2 | | CHEE3007 Process Modelling & Dynamics | 2 | 2 | |
| CHEE4305 Biomaterials: Materials in Medicine (discontinued) | 2 | 2/20 | BIOE4305 Biomaterials: Materials in Medicine | 2 | 2 | 2/21 |
| CHEE4002 Risk in Process Industries | 2 | | CHEE4002 Risk in Process Industries | 1 | 2 | |
| CHEE4009 Transport Phenomena | 2 | | CHEE4009 Transport Phenomena | 1 | 2 | |
| CHEE4034 Cell & Tissue Engineering (discontinued) | 2 | 1/20 | BIOE6034 Cell and Tissue Engineering | 1 | 2 | 1/21 |
| CHEE4060 Process & Control System Synthesis (discontinued) | 2 | 1/23 | CHEE2020 Process Equipment & Control Systems | 2 | 2 | 2/22 |
| ENGG4900 Professional Practice and the Business Environment (discontinued) | 2 | 2/23 | ENGG4901 Professional Practice and the Business Environment A OR ENGG4902 Professional Practice and the Business Environment B | 1 2 | 2 2 | 1/24 2/24 |
| CHEE4001 Process Engineering Design Project | 4 | | CHEE4001 Process Engineering Design Project | 2 | 4 | |

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PART B

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

| ✓/X compl. | Part B1 - Introductory Electives | # | Last offered | If NOT completed – you can choose*: | Sem offering | # | First offered |
|------------|--|---|--------------|---|--------------|--------|---------------|
| | BIOL1040 Cells to Organisms | 2 | | BIOL1040 Cells to Organisms | 2 | 2 | |
| | CSSE1001 Introduction to Software Engineering | 2 | | CSSE1001 Introduction to Software Engineering Or ENGG1001 Programming for Engineers | 1,2 1,2 | 2 2 | |
| | 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 | 2 | 2 | |

| ✓/X compl. | Part B2 - Electives | # | Last offered | If NOT completed – you can choose*: | Sem offering | # | First offered |
|------------|---|---|--------------|---------------------------------------|--------------|---|---------------|
| | CHEE2501 Environmental Systems Engineering I: Processes (discontinued) | 2 | 2/20 | ENVE2501 Environmental Systems | 2 | 2 | 1/21 |
| | 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 | 2/20 | Any BE Elective | | | |

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|--|---|---|-------------|---|-----|---|-------------|
| | CIVL3141 Hydrology and Hydrological Risk (discontinued) | 2 | 2/21 | GEOS2101 Climatology & Hydrology Or CIVL3155 Hydrology and Free Surface Flows | 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 | |
| | FOOD3017 Food Policy, Safety & Quality Management | 2 | | FOOD3017 Food Policy, Safety & Quality Management | 1,2 | 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 (discontinued) | 2 | 2/21 | METL2201 Metal Production and Recycling | 2 | 2 | 2/22 |
| | MINE3211 Special Topics in Minerals Processing II (discontinued) | 2 | 2/20 | Any BE Elective | | | |
| | MINE3212 Pyrometallurgy (discontinued) | 2 | 2/21 | METL6212 Pyrometallurgy | 1 | 2 | 2/22 |
| | MINE3219 Process Mineralogy and Comminution (discontinued) | 2 | 1/21 | METL3219 Process Mineralogy and Comminution | 1 | 2 | 1/22 |
| | MINE4207 Special Topics in Minerals Processing I (discontinued) | 1 | 2/20 | Any BE Elective | | | |

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| ✓/X compl. | Part B4 - Advanced Electives | # | Last offered | If NOT completed – you can choose*: | Sem offering | # | First offered |
|---------------|---|---|--------------|--|-----------------|---|---------------|
| | CHEE4012 Industrial Wastewater & Solid Waste Management (discontinued) | 2 | 2/22 | WATR6103 Advanced Wastewater and Biosolids Treatment | 2 | 2 | 2/23 |
| | CHEE4022 Principles of Adsorption (discontinued) | 2 | 2/20 | Any Part B4 Elective | | | |
| | 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 (discontinued) | 2 | 1/17 | Any Part B4 Elective | | | |
| | ENGG3500 Reservoir Engineering (discontinued) | 2 | 2/20 | ENGG3500 Reservoir Engineering (discontinued) | 2 | 2 | |
| | ENGY4000 Energy Systems | 2 | | ENGY4000 Energy Systems | 1 | 2 | |
| | MECH4304 Net Shape Manufacturing | 2 | | MECH4304 Net Shape Manufacturing | 1 | 2 | |
| | MINE4203 Flotation(discontinued) | 2 | 1/21 | METL3220 Physical Separations and Interfacial Engineering | 2 | 2 | 1/22 |
| | MINE4204 Aqueous Solution Processes(discontinued) | 2 | 1/21 | METL6204 Hydrometallurgy and Electrometallurgy | 1 | 2 | 1/22 |

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