

CHECKLIST Bachelor of Engineering (Honours) – Mechanical & Aerospace 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) (Mechanical & Aerospace Engineering Plan code: MEAERW2342), 64 units comprising –

- (i) 56 units, being all courses from [part A](#) – compulsory (listed below), and
- (ii) 4 units from [part B4](#) - advanced electives, and
- (iii) 4 units from electives

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 |
|-----------------------------------|--|-------------|--------------|---|--------------|-----|---------------|
| 56 units 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 | | 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 | |
| | ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued) | 2 | 2/20 | ENGG1700 Statics & Materials | 1,2 | 2 | 1/21 |
| | ENGG1500 Engineering Thermodynamics | 2 | | ENGG1500 Engineering Thermodynamics | 1 | 2 | |
| | ENGG1300 Introduction to Electrical Systems | 2 | | ENGG1300 Introduction to Electrical Systems | 1,2 | 2 | |
| | MATH2000 Calculus & Linear Algebra II (discontinued) or MATH2001 Advanced Calculus & Linear Algebra II | 2 | 2/21 | MATH2001 Calculus & Linear Algebra II | 1,2,S | 1,2 | |
| | MECH2300 Structures & Materials | 2 | | MECH2300 Structures & Materials | 1 | 2 | |
| | MECH2305 Introduction to Engineering Design and Manufacturing | 2 | | MECH2305 Introduction to Engineering Design and Manufacturing | 1 | 2 | |
| | MECH2410 Fundamentals of Fluid Mechanics | 2 | | MECH2410 Fundamentals of Fluid Mechanics | 1 | 2 | |
| | MECH2100 Machine Element Design | 2 | | MECH2100 Machine Element Design | 2 | 2 | |

Once you have completed the BE(Hons) Transition Plan – Mechanical & Aerospace continuation 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.

| | | | | | | | |
|--|---|--------|----------------------|--|---------------|--------|------|
| | MECH2210 Intermediate Mechanical & Space Dynamics | 2 | | MECH2210 Dynamics I | 2 | 2 | |
| | MECH2700 Computational Engineering & Data Analysis | 2 | | MECH2700 Engineering Analysis I | 2 | 2 | |
| | MATH2010 Analysis of Ordinary Differential Equations AND STAT2201 Analysis of Engineering & Scientific Data | 1 1 | | MATH2010 Analysis of Ordinary Differential Equations AND STAT2201 Analysis of Engineering & Scientific Data | 1,2 1,2 | 1 1 | |
| | MECH3400 Thermodynamics & Heat Transfer | 2 | | MECH3400 Thermodynamics & Heat Transfer | 1 | 2 | |
| | MECH3600 Engineering Management & Communication (discontinued) | 2 | 1/22 | MECH3610 Systems Engineering Principles | 1 | 2 | 1/23 |
| | MECH3300 Finite Element Method & Fracture Mechanics (discontinued) | 2 | 1/22 | MECH3780 Computational Mechanics | 1 | 2 | 1/23 |
| | MECH3100 Mechanical Systems Design | 2 | | MECH3100 Systems Engineering Practice | 2 | 2 | |
| | MECH3200 Advanced Dynamics & Vibrations | 2 | | MECH3200 Advanced Dynamics & Vibrations | 2 | 2 | |
| | MECH3410 Fluid Mechanics | 2 | | MECH3410 Fluid Mechanics | 2 | 2 | |
| | MECH3750 Engineering Analysis II (discontinued) | 2 | 2/22 | If MECH2700 & MECH3780 OR MECH2700 & MECH3300 completed, then exemption – advanced Mech Eng elective to be taken in lieu | | 2 | |
| | AERO4100 Aero Design and Manufacturing | 2 | | AERO4100 Aero Design and Manufacturing | 2 | 2 | |
| | AERO4450 Aerospace Propulsion | 2 | | AERO4450 Aerospace Propulsion | 1 | 2 | |
| | 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 | 1/24 |
| | METR4201 Control Engineering 1 | 2 | | METR4201 Control Engineering 1 | 1 | 2 | |
| | ENGG4011 Professional Engineering Project (6) (discontinued) or MECH4500 Engineering Thesis (discontinued) or MECH4501 Engineering Thesis (discontinued) or MECH4552 Major Design Project (discontinued) | 6 | 2/20 2/20 2/20 | ENGG4013 Professional Engineering Project (discontinued) or ENGG4600 Engineering Thesis or ENGG4601 Engineering Thesis or ENGG4552 Major Design Project | 1 2 1,2 | 4 | |
| | 4 units from part B4 - advanced electives | | | 4 units from part B4 - advanced electives | | | |

| ✓/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 | 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 |
|------------|---|---|--------------|---|--------------|--------|---------------|
| | CHEM1100 Chemistry 1 | 2 | | CHEM1100 Chemistry 1 | 1,2 | 2 | |
| | CSSE1001 Introduction to Software Engineering | 2 | | CSSE1001 Introduction to Software Engineering Or ENGG1001 Programming for Engineers | 1,2 1,2 | 2 2 | |
| | 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 | |
| | PHYS1002 Electromagnetism and Modern Physics | 2 | | PHYS1002 Electromagnetism and Modern Physics (semester 2 only from 2022) | 2 | 2 | |

| ✓/X compl. | Part B4 - Advanced Electives | # | Last offered | If NOT completed – you can choose*: | Sem offering | # | First offered |
|---|--|---|--------------|--|--------------|---|---------------|
| 4 units from Part B4 - Advanced Electives | | | | | | | |
| | AERO4200 Flight Mechanics & Avionics | 2 | | AERO4200 Flight Mechanics & Avionics | 1 | 2 | |
| | AERO4300 Aerospace Composites | 2 | | AERO4300 Aerospace Composites | 2 | 2 | |
| | AERO4470 Hypersonics | 2 | | AERO4470 Hypersonics | 1 | 2 | |
| | AERO4800 Space Engineering | 2 | | AERO4800 Space Engineering | 1 | 2 | |
| | MECH6480 Computational Fluid Dynamics | 2 | | MECH6480 Computational Fluid Dynamics | 2 | 2 | |

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