

## CHECKLIST Bachelor of Engineering (Honours) – Mechanical Engineering: Transition to new program

\* This checklist is for the BE(Hons) component ONLY for dual programs with Bachelor of Mathematics and Bachelor of Science

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, as course restrictions may apply
- **Please contact the relevant Faculty for information regarding the other component of your dual program**

For the BE(Hons) component, with a specialisation in Mechanical Engineering:

(a) 60 units from the BE(Hons) component, comprising—

- I. 8 units for all BE(Hons) Core Courses; and
- II. 36 units for one Specialisation in Mechanical Engineering; and
- III. One of the following:
  - a. 16 units for one Major from Mechanical Engineering Major Options\*, or
  - b. 16 units for Mechanical Engineering Minor Options\*\*, or
  - c. 16 units for Mechanical Engineering Specialisation No Major option

\*Majors available in: Aerospace Engineering; Biomedical Engineering; Fire Safety Engineering; Materials Engineering; Mining Engineering

\*\*Minors available in: Data Science; Computing, Design

| ✓/X compl. | You must complete (NEW Program requirements)  | Sem offering | # | First offered | Approved substitution  | Last offered |
|------------|---|--------------|---|---------------|--|--------------|
|            | <b>ENGG1100</b> Professional Engineering  | 1,2          | 2 |               | Course must be completed<br>[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 (NEW)<br>or<br><b>CSSE1001</b> Introduction to Software Engineering   | 1,2          | 2 | 1/21          | Course must be completed   |              |
|            | <b>MATH1051</b> Calculus & Linear Algebra I<br>or<br><b>MATH1071</b> Advanced Calculus & Linear Algebra I   | 1,2          | 2 |               | Course must be completed   |              |
|            | <b>MATH1052</b> Multivariate Calculus & Ordinary Differential Equations<br>or<br><b>MATH1072</b> 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): \_\_\_\_\_

| ✓/X compl. | 2021 Mechanical Engineering specialisation list (36 units)  | Sem offering       | #      | First offered | Approved substitution  | Last offered |
|------------|---|--------------------|--------|---------------|--|--------------|
|            | 36 units for all:<br>Compulsory Courses   |                    |        |               |  |              |
|            | ENGG1300 Introduction to Electrical Systems   | 1,2                | 2      |               | Course must be completed   |              |
|            | ENGG1500 Thermodynamics: Energy and the Environment   | 1,2                | 2      |               | ENGG1500 Engineering Thermodynamics  |              |
|            | ENGG1700 Statics & Materials (NEW)  | 1,2                | 2      | 1/21          | ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)  | 2/20         |
|            | MECH2100 Machine Element Design   | 2                  | 2      |               | Course must be completed   |              |
|            | MECH2210 Dynamics I   | 2                  | 2      |               | Course must be completed   |              |
|            | MECH2300 Structures and Materials   | 1                  | 2      |               | Course must be completed   |              |
|            | MECH2305 Introduction to Engineering Design and Manufacturing   | 1                  | 2      |               | Course must be completed   |              |
|            | MECH2410 Fundamentals of Fluid Mechanics  | 1                  | 2      |               | Course must be completed   |              |
|            | MATH2001 Calculus & Linear Algebra II   | 1,2                | 2      |               | MATH2001 Advanced Calculus & Linear Algebra II<br>MATH2000 Calculus & Linear Algebra II  |              |
|            | MATH2010 Analysis of Ordinary Differential Equations (1) and<br>STAT2201 Probability Models and Data Analysis for Engineering (1)                                 | 1,2<br>1,2         | 1      |               | Course must be completed   |              |
|            | MECH3100 Systems Engineering Practice   | 2                  | 2      |               | Course must be completed   |              |
|            | MECH3200 Advanced Dynamics and Vibrations   | 2                  | 2      |               | Course must be completed   |              |
|            | MECH3400 Thermodynamics and Heat Transfer   | 1                  | 2      |               | Course must be completed   |              |
|            | MECH3610 Systems Engineering Principles (NEW)   | 1                  | 2      | 1/23          | MECH3600 Engineering Management & Communication (discontinued)   | 1/22         |
|            | ENGG4900 Professional Practice and the Business Environment   | 1,2                | 2      |               | Course must be completed   |              |
|            | METR4201 Control Engineering I  | 1                  | 2      |               | Course must be completed   |              |
|            | ENGG4552 Major Design Project (4)<br>ENGG4600 Engineering Thesis (4)<br>ENGG4601 Engineering Thesis (4)<br>or ENGG4013 Professional Engineering Project (NEW) (4) | 1,2<br>1<br>2<br>2 | 6<br>4 | TBA           | MECH4552 Major Design Project (4) (discontinued)<br>MECH4500 Engineering Thesis (4) (discontinued)<br>or MECH4501 Engineering Thesis (4) (discontinued)<br>or ENGG4011 Professional Engineering Project (6) (discontinued) | 2/20         |
|            |   |                    |        |               |  |              |

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BE(Hons) Transition Plan – Mechanical Engineering NEW

Checked by (Faculty: Name and Date): \_\_\_\_\_

## Mechanical Engineering No Major Option

Complete 16 units comprising -

1. 6 units for all Mechanical Engineering Extension Courses; and
2. 4 to 10 units from Mechanical Engineering Advanced Electives; and
3. 0 to 6 units from Mechanical Engineering Breadth Electives; and
4. 0 to 4 units from Program Electives; and
5. 0 to 4 units from General Electives.

| ✓/X compl. | 6 units for all:<br>Mechanical Engineering Extension Courses | Sem offering | # | First offered | Approved substitution   | Last offered |
|------------|--|--------------|---|---------------|---|--------------|
|            | <b>MECH2700</b> Computational Engineering & Data Analysis    | 2            | 2 |               | Course must be completed  |              |
|            | <b>MECH3780</b> Computational Mechanics (NEW)                | 1            | 2 | 1/23          | <b>MECH3300</b> Finite Element Method & Fracture Mechanics (discontinued) | 1/22         |
|            | <b>MECH3410</b> Fluid Mechanics                              | 2            | 2 |               | Course must be completed  |              |

| ✓/X compl. | 4 to 10 units from:<br>Mechanical Engineering Advanced Electives | Sem offering | # | First offered | Approved substitution                                       | Last offered |
|------------|--|--------------|---|---------------|---|--------------|
|            | <b>AERO4300</b> Aerospace Composites                             | 2            | 2 |               | No substitution   |              |
|            | <b>AERO4450</b> Aerospace Propulsion                             | 1            | 2 |               | No substitution   |              |
|            | <b>AERO4470</b> Hypersonics                                      | 1            | 2 |               | No substitution   |              |
|            | <b>AERO4800</b> Space Engineering                                | 2            | 2 |               | No substitution   |              |
|            | <b>ENGY4000</b> Energy Systems                                   | 1            | 2 |               | No substitution   |              |
|            | <b>FIRE3700</b> Introduction to Fire Safety Engineering          | 1            | 2 |               | No substitution   |              |
|            | <b>MATE4302</b> Electrochemistry and Corrosion                   | 2            | 2 | 2/21          | <b>CHEE4302</b> Electrochemistry & Corrosion (discontinued) | 2/20         |
|            | <b>MECH3250</b> Engineering Acoustics                            | 2            | 2 |               | No substitution   |              |
|            | <b>MECH3301</b> Materials Selection                              | 2            | 2 |               | No substitution   |              |
|            | <b>MECH4304</b> Net Shape Manufacturing                          | 1            | 2 |               | No substitution   |              |
|            | <b>MECH4950</b> Advanced Manufacturing in Practice               | 2            | 2 |               | No substitution   |              |
|            | <b>MECH4951</b> Special Topics D                                 | 1            | 1 |               | No substitution   |              |
|            | <b>METR3100</b> Control System Implementation                    | 1            | 2 |               | No substitution   |              |
|            | <b>METR4202</b> Robotics & Automation                            | 2            | 2 |               | No substitution   |              |
|            | <b>TIMS3309</b> Technology and Innovation Management             | 2            | 2 |               | No substitution   |              |

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**BE(Hons) Transition Plan – Mechanical Engineering NEW**

Checked by (Faculty: Name and Date): \_\_\_\_\_

| ✓/X compl. | 0 to 6 units from:<br>Mechanical Engineering Breadth Electives      | Sem offering | # | First offered | Approved substitution  | Last offered |
|------------|---|--------------|---|---------------|--|--------------|
|            | <b>ELEC2300</b> Electromagnetism and Electromechanics (NEW)         | 1            | 2 | 1/22          | <b>ELEC2003</b> Electromechanics & Electronics (discontinued). | 1/21         |
|            | <b>ENGG1600</b> Introduction to Research Practices - The Big Issues | 2            | 2 |               | No substitution  |              |
|            | <b>FIRE3700</b> Introduction to Fire Safety Engineering             | 1            | 2 |               | No substitution  |              |
|            | <b>MECH2310</b> Science and Engineering of Metals                   | 2            | 2 |               | No substitution  |              |
|            | <b>PHYS2082</b> Space Science & Stellar Astrophysics                | 2            | 2 |               | No substitution  |              |

Mechanical Engineering Breadth Electives can also be chosen from course lists for the following majors:

Aerospace Engineering  
 Biomedical Engineering  
 Fire Safety Engineering  
 Materials Engineering  
 Mining Engineering

*Courses on this list may require pre-requisites. Please seek academic advice if required.*

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**BE(Hons) Transition Plan – Mechanical Engineering NEW**

Checked by (Faculty: Name and Date): \_\_\_\_\_

| ✓/X compl. | Major in Aerospace Engineering (16 units)                 | Sem offering | # | First offered | Approved substitution   | Last offered |
|------------|---|--------------|---|---------------|---|--------------|
|            | <b>MECH2700</b> Computational Engineering & Data Analysis | 2            | 2 |               | Course must be completed  |              |
|            | <b>MECH3780</b> Computational Mechanics (NEW)             | 1            | 2 | 1/23          | <b>MECH3300</b> Finite Element Method & Fracture Mechanics (discontinued) | 1/22         |
|            | <b>MECH3410</b> Fluid Mechanics                           | 2            | 2 |               | Course must be completed  |              |
|            | <b>AERO4100</b> Aerospace Design & Manufacturing          | 2            | 2 |               | Course must be completed  |              |
|            | <b>AERO4200</b> Flight Mechanics & Avionics               | 1            | 2 |               | Course must be completed  |              |
|            | <b>AERO4450</b> Aerospace Propulsion                      | 1            | 2 |               | Course must be completed  |              |
|            | <b>4 units from:<br/>Aerospace Engineering Electives</b>  |              |   |               |   |              |
|            | <b>AERO4300</b> Aerospace Composites                      | 2            | 2 |               | No substitution   |              |
|            | <b>AERO4470</b> Hypersonics                               | 1            | 2 |               | No substitution   |              |
|            | <b>AERO4800</b> Space Engineering                         | 2            | 2 |               | No substitution   |              |

| ✓/X compl. | Major in Biomedical Engineering (16 units)   | Sem offering | # | First offered | Approved substitution   | Last offered |
|------------|--|--------------|---|---------------|---|--------------|
|            | <b>4 units for:<br/>Biomedical Engineering courses for Mechanical Engineers only</b> |              |   |               |   |              |
|            | <b>MECH2700</b> Computational Engineering & Data Analysis                            | 2            | 2 |               | Course must be completed  |              |
|            | <b>MECH3780</b> Computational Mechanics (NEW)  | 1            | 2 | 1/23          | <b>MECH3300</b> Finite Element Method & Fracture Mechanics (discontinued) | 1/22         |
|            | <b>8 units for:<br/>Biomedical Engineering Compulsory Courses</b>                    |              |   |               |   |              |
|            | <b>BIOE1001</b> Principles of Biomedical & Bioprocess Engineering                    | 1            | 2 | 1/21          | <b>CHEE1001</b> Principles of Biological Engineering (discontinued)       | 1/20         |
|            | <b>BIOE3001</b> Quantitative Methods in Biomedical Engineering (NEW)                 | 2            | 2 | 2/22          | Course must be completed  |              |
|            | <b>BIOE4305</b> Biomaterials: Materials in Medicine                                  | 2            | 2 | 2/21          | <b>CHEE4305</b> Biomaterials: Materials in Medicine (discontinued)        | 2/20         |
|            | <b>BIOE6901</b> Medical Device Engineering   | 1            | 2 | 1/21          | <b>ELEC7901</b> Advanced Medical Device Engineering (discontinued)        | 1/20         |
|            | <b>4 units from:<br/>Biomedical Engineering Electives</b>                            |              |   |               |   |              |
|            | <b>BIOC2000</b> Biochemistry & Molecular Biology                                     | 1            | 2 |               | No substitution   |              |
|            | <b>BIOE6028</b> Metabolic Engineering  | 2            | 2 | 2/21          | <b>CHEE4028</b> Metabolic Engineering (discontinued)                      | 2/20         |
|            | <b>BIOE6403</b> Biomedical Instrumentation   | 2            | 2 | 2/21          | <b>ELEC4403/ELEC6403</b> Biomedical Instrumentation (discontinued)        | 2/20         |

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**BE(Hons) Transition Plan – Mechanical Engineering NEW**

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|  |   |        |   |             |  |             |
|--|---|--------|---|-------------|--|-------------|
|  | <b>BIOE6601</b> Medical Imaging                                     | 2      | 2 | <b>2/21</b> | <b>ELEC6601</b> Medical Imaging (discontinued)   | <b>2/20</b> |
|  | <b>BIOL1040</b> Cells to Organisms                                  | 1,2    | 2 |             | No substitution  |             |
|  | <b>BIOL2200</b> Cell Structure & Function                           | 1      | 2 |             | No substitution  |             |
|  | <b>BIOL2202</b> Genetics  | 2      | 2 |             | No substitution  |             |
|  | <b>BINF3014</b> Advanced Bioinformatics                             | 2      | 2 | <b>2/21</b> | <b>BIOL3014</b> Advanced Bioinformatics (discontinued)   | <b>2/20</b> |
|  | <b>BIOM2011</b> Integrative Cell & Tissue Biology                   | 1      | 2 |             | No substitution  |             |
|  | <b>BIOM2012</b> Systems Physiology                                  | 2      | 2 |             | No substitution  |             |
|  | <b>BIOM2020</b> Human Anatomy                                       | 1      | 2 |             | No substitution  |             |
|  | <b>BIPH2000</b> Foundations of Biophysics                           | 2      | 2 |             | No substitution  |             |
|  | <b>COMP4702</b> Machine Learning                                    | 1      | 2 |             | No substitution  |             |
|  | <b>COMS4113</b> Photonics   | 1      | 2 | <b>1/21</b> | <b>COMS4103</b> Photonics (discontinued)   | <b>1/20</b> |
|  | <b>COMS4104</b> Microwave Engineering                               | 1      | 2 |             | No substitution  |             |
|  | <b>CSSE2002</b> Programming in the Large                            | 1,2    | 2 |             | No substitution  |             |
|  | <b>CSSE4011</b> Advanced Embedded Systems                           | 1      | 2 |             | No substitution  |             |
|  | <b>ELEC4620</b> Digital Signal Processing                           | 2      | 2 |             | No substitution  |             |
|  | <b>ELEC4630</b> Image Processing and Computer Vision                | 1      | 2 |             | No substitution  |             |
|  | <b>MATE6301</b> Nanomaterials                                       | 2      | 2 | <b>2/21</b> | <b>CHEE4301</b> Nanomaterials (discontinued)   | <b>2/20</b> |
|  | <b>MECH3301</b> Materials Selection                                 | 2      | 2 |             | No substitution  |             |
|  | <b>MECH4950</b> Advanced Manufacturing in Practice                  | 2      | 2 |             | No substitution  |             |
|  | <b>METR4202</b> Robotics & Automation                               | 2      | 2 |             | No substitution  |             |
|  | <b>MICR2000</b> Microbiology & Immunology                           | 2      | 2 |             | No substitution  |             |
|  | <b>SCIE2100</b> Introduction to Bioinformatics                      | 1      | 2 |             | No substitution  |             |
|  | <b>CHEE4026</b> Thesis Project<br>or <b>CHEE4027</b> Thesis Project | 1<br>2 | 4 |             | <b>CHEE4006</b> Individual Inquiry OR <b>CHEE4007</b> Individual Inquiry<br>(plus 2 units electives) |             |

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**BE(Hons) Transition Plan – Mechanical Engineering NEW**

**Checked by (Faculty: Name and Date):** \_\_\_\_\_

| ✓/X compl. | Major in Fire Safety Engineering (16 units)  | Sem offering | # | First offered | Approved substitution   | Last offered |
|------------|--|--------------|---|---------------|---|--------------|
|            | <b>6 units for:</b><br><b>Fire Safety Engineering Courses for Mechanical Engineers <u>only</u></b> |              |   |               |   |              |
|            | <b>MECH2700</b> Computational Engineering & Data Analysis  | 2            | 2 |               | <b>MECH2700</b> Engineering Analysis I  |              |
|            | <b>MECH3780</b> Computational Mechanics (NEW)  | 1            | 2 | <b>1/23</b>   | <b>MECH3300</b> Finite Element Method & Fracture Mechanics (discontinued)                 | <b>1/22</b>  |
|            | 2 units from Mechanical Engineering Advanced Electives list  |              | 2 |               |   |              |
|            | <b>10 units for:</b><br><b>Fire Safety Engineering Compulsory Courses</b>                          |              |   |               |   |              |
|            | <b>FIRE3700</b> Introduction to Fire Safety Engineering  | 1            | 2 |               | Course must be completed  |              |
|            | <b>FIRE4610</b> Fire Engineering Design: Solutions for Implicit Safety                             | 1            | 2 |               | Course must be completed  |              |
|            | <b>FIRE6090</b> Fire Dynamics (NEW)  | 2            | 2 | <b>2/23</b>   | <b>FIRE7620</b> Fire Dynamics (discontinued)  |              |
|            | <b>FIRE6100</b> Fire Engineering Design: Explicit Quantification of Safety (NEW)                   | 2            | 2 | <b>2/23</b>   | <b>FIRE7680</b> Fire Engineering Design: Explicit Quantification of Safety (discontinued) |              |
|            | <b>FIRE6110</b> Structural Fire Engineering (NEW)  | 1            | 2 | <b>1/23</b>   | <b>FIRE7660</b> Structural Fire Engineering (discontinued)                                |              |

| ✓/X compl. | Major in Materials Engineering (16 units)  | Sem offering | # | First offered | Approved substitution   | Last offered |
|------------|--|--------------|---|---------------|---|--------------|
|            | <b>4 units for:</b><br><b>Materials Engineering Courses for Mechanical Engineers <u>only</u></b> |              |   |               |   |              |
|            | <b>MECH2700</b> Computational Engineering & Data Analysis  | 2            | 2 |               | Course must be completed  |              |
|            | <b>MECH3780</b> Computational Mechanics (NEW)  | 1            | 2 | <b>1/23</b>   | <b>MECH3300</b> Finite Element Method & Fracture Mechanics (discontinued) | <b>1/22</b>  |
|            | <b>8 units for:</b><br><b>Materials Engineering Compulsory Courses</b>                           |              |   |               |   |              |
|            | <b>MECH2310</b> Science and Engineering of Metals  | 2            | 2 |               | Course must be completed  |              |
|            | <b>CHEE3301</b> Polymers   | 1            | 2 |               | <b>CHEE3301</b> Polymer Engineering                                       |              |
|            | <b>MECH3301</b> Materials Selection  | 2            | 2 |               | Course must be completed  |              |
|            | <b>CHEE4302</b> Electrochemistry & Corrosion   | 2            | 2 |               | Course must be completed  |              |

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**BE(Hons) Transition Plan – Mechanical Engineering NEW**

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|  |   |        |   |      |   |      |
|--|---|--------|---|------|---|------|
|  | 4 units from:<br>Materials Engineering Electives              |        |   |      |   |      |
|  | AERO4300 Aerospace Composites                                 | 2      | 2 |      | No substitution   |      |
|  | BIOE4305 Biomaterials: Materials in Medicine                  | 2      | 2 | 2/21 | CHEE4305 Biomaterials: Materials in Medicine (discontinued) | 2/20 |
|  | CHEE4006 Individual Inquiry                                   | 1      | 2 |      | No substitution   |      |
|  | CHEE4007 Individual Inquiry                                   | 2      | 2 |      | No substitution   |      |
|  | CHEE4026 Thesis Project<br>or CHEE4027 Thesis Project         | 1<br>2 | 4 |      | No substitution   |      |
|  | MATE6301 Nanomaterials  | 2      | 2 | 2/21 | CHEE4301 Nanomaterials (discontinued)                       | 2/20 |
|  | MECH2305 Introduction to Engineering Design and Manufacturing | 1      | 2 |      | No substitution   |      |
|  | MECH4304 Net Shape Manufacturing                              | 1      | 2 |      | No substitution   |      |

| ✓/X<br>compl. | Major in Mining Engineering (16 units)  | Sem<br>offering | # | First<br>offered | Approved substitution  | Last offered |
|---------------|---|-----------------|---|------------------|--|--------------|
|               | 4 units for:<br>Mining Engineering Courses for Mechanical Engineers <u>only</u> |                 |   |                  |  |              |
|               | MECH2700 Computational Engineering and Data Analysis                            | 2               | 2 |                  | Course must be completed   |              |
|               | MECH3780 Computational Mechanics (NEW)  | 1               | 2 | 1/23             | MECH3300 Finite Element Method & Fracture Mechanics (discontinued) | 1/22         |
|               | 12 units for:<br>Mining Engineering Compulsory Courses                          |                 |   |                  |  |              |
|               | MINE3110 Integrated Orebody Knowledge (NEW)                                     | 2               | 2 | 2/23             | MINE3120 Resource Estimation (discontinued)                        | 1/22         |
|               | MINE3122 Mining Systems & Automation  | 1               | 2 |                  | MINE3122 Mining Systems (renamed)                                  |              |
|               | MINE3123 Mine Planning & Sustainability   | 2               | 2 |                  | MINE3123 Mine Planning   |              |
|               | MINE3129 Applied Mining Geomechanics (NEW)                                      | 1               | 2 | 1/23             | MINE4120 Mine Geotechnical Engineering (discontinued)              | 1/22         |
|               | MINE4124 Mine Design, Feasibility and Sustainability                            | 1               | 2 |                  | MINE4124 Hard Rock Mine Design & Feasibility                       |              |
|               | MINE4129 Mine Process Optimisation (NEW)  | 2               | 2 | 2/23             | MINE3125 Explosives and Blasting Engineering (discontinued)        | 2/22         |

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BE(Hons) Transition Plan – Mechanical Engineering NEW

Checked by (Faculty: Name and Date): \_\_\_\_\_



## Mechanical Engineering with Engineering Minor

Complete 16 units comprising:

8 units for one of the following minors:

Data Science

Computing

Design

and

8 units from Mechanical Engineering Advanced Electives

| ✓/X<br>compl. | Minor in Computing (8 units)                                     | Sem<br>offering | # | First<br>offered | Approved substitution    | Last offered |
|---------------|--|-----------------|---|------------------|--------------------------|--------------|
|               | <b>4 units for all:<br/>Computing Minor Compulsory Courses</b>   |                 |   |                  |                          |              |
|               | <b>CSSE2002</b> Programming in the Large                         | 1,2             | 2 |                  | Course must be completed |              |
|               | <b>COMP3506</b> Algorithms and Data Structures                   | 2               | 2 |                  | Course must be completed |              |
|               | <b>4 units from:<br/>Computing Electives</b>                     |                 |   |                  |                          |              |
|               | <b>COMP4702</b> Machine Learning                                 | 1               | 2 |                  | No substitution          |              |
|               | <b>COSC2500</b> Numerical Methods in Computational Science       | 2               | 2 |                  | No substitution          |              |
|               | <b>COSC3000</b> Visualization, Computer Graphics & Data Analysis | 1               | 2 |                  | No substitution          |              |
|               | <b>COSC3500</b> High Performance Computing                       | 2               | 2 |                  | No substitution          |              |
|               | <b>INFS1200</b> Introduction to Information Systems              | 1,2             | 2 |                  | No substitution          |              |
|               | <b>INFS3208</b> Cloud Computing                                  | 2               | 2 |                  | No substitution          |              |
|               | <b>MATH3202</b> Operations Research & Mathematical Planning      | 1               | 2 |                  | No substitution          |              |

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**BE(Hons) Transition Plan – Mechanical Engineering NEW**

**Checked by (Faculty: Name and Date):** \_\_\_\_\_

| ✓/X<br>compl. | Minor in Data Science (8 units)                           | Sem<br>offering | # | First offered | Approved substitution    | Last offered |
|---------------|---|-----------------|---|---------------|--------------------------|--------------|
|               | 4 units for all:<br>Data Science Minor Compulsory Courses |                 |   |               |                          |              |
|               | <b>DATA2001</b> Introduction to Data Science (NEW)        | 2               | 2 | <b>2/22</b>   | Course must be completed |              |
|               | <b>INFS1200</b> Introduction to Information Systems       | 1,2             | 2 |               | Course must be completed |              |
|               | 4 units from:<br>Data Science Electives                   |                 |   |               |                          |              |
|               | <b>COMP4702</b> Machine Learning                          | 1               | 2 |               | No substitution          |              |
|               | <b>INFS2200</b> Relational Database Systems               | 2               | 2 |               | No substitution          |              |
|               | <b>INFS3208</b> Cloud Computing                           | 2               | 2 |               | No substitution          |              |
|               | <b>INFS4203</b> Data Mining                               | 2               | 2 |               | No substitution          |              |
|               | <b>STAT2003</b> Mathematical Probability                  | 1               | 2 |               | No substitution          |              |
|               | <b>STAT2004</b> Statistical Modelling & Analysis          | 2               | 2 |               | No substitution          |              |

| ✓/X<br>compl. | Minor in Design (8 units)                           | Sem<br>offering | # | First offered | Approved substitution    | Last<br>offered |
|---------------|---|-----------------|---|---------------|--------------------------|-----------------|
|               | 2 units for all:<br>Design Minor Compulsory Courses |                 |   |               |                          |                 |
|               | <b>DSGN1500</b> Design for a Better World           | 2               | 2 |               | Course must be completed |                 |
|               | 6 units from:<br>Design Electives                   |                 |   |               |                          |                 |
|               | <b>DSGN1100</b> Design: Interaction                 | 1               | 2 |               | No substitution          |                 |
|               | <b>DSGN1200</b> Design: Experience                  | 2               | 2 |               | No substitution          |                 |
|               | <b>DSGN2100</b> Design: Organisation                | 1               | 2 |               | No substitution          |                 |
|               | <b>DSGN2200</b> Design: Environment                 | 2               | 2 |               | No substitution          |                 |
|               | <b>DSGN3100</b> Design: Infrastructure              | 1               | 2 |               | No substitution          |                 |

Once you have completed the checklist, you may either email your checklist to the Faculty on [enquiries@eait.uq.edu.au](mailto:enquiries@eait.uq.edu.au) or book an appointment with an Academic Advisor directly.

**BE(Hons) Transition Plan – Mechanical Engineering NEW**

**Checked by (Faculty: Name and Date):** \_\_\_\_\_