

# 2022 Study Plan Master of Marine Engineering – Semester 2 Start

## Submarine Specialisation

| Year 1 |   |   |   |  |
|--------|---|---|---|--|
| S2     | Marine Engineering Elective (see elective table) <input type="checkbox"/>   | Marine Engineering Elective (see elective table) <input type="checkbox"/> | Marine Engineering Elective (see elective table) <input type="checkbox"/>                       |  |
| Year 2 |   |   |   |  |
| Summer | #MECH ENG 7056<br>Systems Engineering I <input type="checkbox"/>            |   |   |  |
| S1     | #MECH ENG 7042<br>Introduction to Submarine Design <input type="checkbox"/> | MECH ENG 7046<br>Submarine Design <input type="checkbox"/>                | MECH ENG 7049A<br>Marine Engineering Research Project Part A (6 units) <input type="checkbox"/> |  |
| S2     | Marine Engineering Elective (see elective table) <input type="checkbox"/>   | Marine Engineering Elective (see elective table) <input type="checkbox"/> | MECH ENG 7049B<br>Marine Engineering Research Project Part B (6 units) <input type="checkbox"/> |  |

## Surface Ship Specialisation

| Year 1 |   |   |   |  |
|--------|---|---|---|--|
| S2     | Marine Engineering Elective (see elective table) <input type="checkbox"/>         | Marine Engineering Elective (see elective table) <input type="checkbox"/> | Marine Engineering Elective (see elective table) <input type="checkbox"/>                       |  |
| Year 2 |   |   |   |  |
| Summer | #MECH ENG 7056<br>Systems Engineering I <input type="checkbox"/>                  |   |   |  |
| S1     | #MECH ENG 7048<br>Introduction to Naval Ship Engineering <input type="checkbox"/> | #MECH ENG 7065<br>Naval Ship Engineering <input type="checkbox"/>         | MECH ENG 7049A<br>Marine Engineering Research Project Part A (6 units) <input type="checkbox"/> |  |
| S2     | Marine Engineering Elective (see elective table) <input type="checkbox"/>         | Marine Engineering Elective (see elective table) <input type="checkbox"/> | MECH ENG 7049B<br>Marine Engineering Research Project Part B (6 units) <input type="checkbox"/> |  |

|             |                      |
|-------------|----------------------|
| Core Course | Elective (see table) |
|-------------|----------------------|

### NOTES

# Intensive mode courses

**Program Rules:** For academic program rules please refer to the following website:  
<https://calendar.adelaide.edu.au/faculty/ecms>

### Information and Enrolment Advice:

Ask ECMS

Email: [askecms@adelaide.edu.au](mailto:askecms@adelaide.edu.au)

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

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## Marine Engineering Electives

| Marine Engineering Electives |                              |  |   |  |  |
|------------------------------|------------------------------|--|---|--|--|
| <b>S1</b>                    | APP MTH 7075                 | Fluid Mechanics  | <b>S2</b>   |  |  |
|                              | ELEC ENG 7015                | <del>Adaptive Signal Processing (not offered 2022)</del> |   | <del>CHEM ENG 7047</del> <del>Composite &amp; Multiphase Polymers (not offered 2022)</del> |  |
|                              | ELEC ENG 7046                | Power Quality & Fault Diagnosis                          |   | COMP SCI 7076  | Distributed Systems                                |
|                              | ELEC ENG 7069                | Electric Energy Systems                                  |   | ELEC ENG 7033  | Principles of RF Engineering                       |
|                              | ELEC ENG 7082                | Principles of Control Systems                            |   | ELEC ENG 7049  | Power Electronics Systems                          |
|                              | MECH ENG 7020                | Materials Selection & Failure Analysis                   |   | ELEC ENG 7055  | Antennas & Propagation                             |
|                              | MECH ENG 7021                | Combustion Technologies & High Temperature Processes     |   | ENG 7020   | Complex Systems Engineering PG                     |
|                              | MECH ENG 7024                | Robotics M   |   | <del>MECH ENG 7023</del> <del>Fracture Mechanics (not offered 2022)</del>                  |  |
|                              | MECH ENG 7026                | Advanced Topics in Fluid Mechanics                       |   | MECH ENG 7028  | Advanced PID Control                               |
|                              | MECH ENG 7030                | Advanced Vibrations                                      |   | MECH ENG 7029  | Airconditioning                                    |
|                              | MECH ENG 7045                | CFD for Engineering Applications                         |   | <del>MECH ENG 7043</del> <del>Stresses in Plates &amp; Shells (not offered 2022)</del>     |  |
|                              | MECH ENG 7053                | Aerospace Propulsion                                     |   | MECH ENG 7044  | Biomechanical Engineering                          |
|                              | MECH ENG 7059                | Finite Element Analysis of Structures                    |   | MECH ENG 7062  | Aircraft Design                                    |
|                              | MECH ENG 7066                | Aeronautical Engineering                                 |   | MECH ENG 7063  | Advanced Topics in Aerospace Engineering           |
|                              | MECH ENG 7067                | Advanced Mechanics of Materials                          |   | MECH ENG 7068  | Applied Aerodynamics                               |
|                              | MECH ENG 7070                | Heat Transfer & Thermodynamics                           |   | MECH ENG 7072  | Micro-Controller Programming                       |
|                              | MECH ENG 7071                | Mechatronics II  |   | MECH ENG 7073  | Space Vehicle Design                               |
|                              | MECH ENG 7077                | Submarine Naval Architecture Maritime Engineering        |   | MECH ENG 7077  | Submarine Naval Architecture Maritime Engineering  |
|                              | MECH ENG 7078                | Submarine Programs for Industry & Defence Managers       |   | MECH ENG 7078  | Submarine Programs for Industry & Defence Managers |
| MECH ENG 7080                | Modern Control Systems       | MECH ENG 7111  | Acoustics and Vibrations  |  |  |
| MECH ENG 7164                | Renewable Power Technologies |  |   |  |  |
| <b>SUM</b>                   | MECH ENG 7025                | Topics in Welded Structures                              | Other Electives may be chosen from another University (up to 6 units), see the academic program rules at: <a href="https://calendar.adelaide.edu.au/faculty/ecms">https://calendar.adelaide.edu.au/faculty/ecms</a> |  |  |
|                              | MECH ENG 7027                | Engineering Acoustics                                    |   |  |  |