# Submarine Specialisation

## Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
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<th>Core Course</th>
<th>Elective (see table)</th>
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</thead>
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<tr>
<td>S1</td>
<td>#MECH ENG 7042</td>
<td>Introduction to Submarine Design</td>
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## Year 2

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<td>Systems Engineering I</td>
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## Surface Ship Specialisation

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<td>#MECH ENG 7048</td>
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### 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
- Website: https://ecms.adelaide.edu.au/study-with-us/student-support
## Marine Engineering Electives

### S1
- **APP MTH 7075** Fluid Mechanics
- **ELEC ENG 7015** Adaptive Signal Processing *(not offered 2022)*
- **ELEC ENG 7046** Power Quality & Fault Diagnosis
- **ELEC ENG 7069** Electric Energy Systems
- **ELEC ENG 7082** Principles of Control Systems
- **MECH ENG 7020** Materials Selection & Failure Analysis
- **MECH ENG 7021** Combustion Technologies & High Temperature Processes
- **MECH ENG 7024** Robotics M
- **MECH ENG 7026** Advanced Topics in Fluid Mechanics
- **MECH ENG 7030** Advanced Vibrations
- **MECH ENG 7045** CFD for Engineering Applications
- **MECH ENG 7053** Aerospace Propulsion
- **MECH ENG 7059** Finite Element Analysis of Structures
- **MECH ENG 7066** Aeronautical Engineering
- **MECH ENG 7067** Advanced Mechanics of Materials
- **MECH ENG 7070** Heat Transfer & Thermodynamics
- **MECH ENG 7071** Mechatronics II
- **MECH ENG 7077** Submarine Naval Architecture Maritime Engineering
- **MECH ENG 7078** Submarine Programs for Industry & Defence Managers
- **MECH ENG 7080** Modern Control Systems
- **MECH ENG 7164** Renewable Power Technologies

### S2
- **CHEM ENG 7047** Composite & Multiphase Polymers *(not offered 2022)*
- **COMP SCI 7076** Distributed Systems
- **ELEC ENG 7033** Principles of RF Engineering
- **ELEC ENG 7049** Power Electronics Systems
- **ELEC ENG 7055** Antennas & Propagation
- **ENG 7020** Complex Systems Engineering PG
- **MECH ENG 7023** Fracture Mechanics *(not offered 2022)*
- **MECH ENG 7028** Advanced PID Control
- **MECH ENG 7029** Airconditioning
- **MECH ENG 7043** Stresses in Plates & Shells *(not offered 2022)*
- **MECH ENG 7044** Biomechanical Engineering
- **MECH ENG 7062** Aircraft Design
- **MECH ENG 7063** Advanced Topics in Aerospace Engineering
- **MECH ENG 7068** Applied Aerodynamics
- **MECH ENG 7072** Micro-Controller Programming
- **MECH ENG 7073** Space Vehicle Design
- **MECH ENG 7077** Submarine Naval Architecture Maritime Engineering
- **MECH ENG 7078** Submarine Programs for Industry & Defence Managers
- **MECH ENG 7111** Acoustics and Vibrations

### SUM
- **MECH ENG 7025** Topics in Welded Structures
- **MECH ENG 7027** Engineering Acoustics

*Other Electives may be chosen from another University (up to 6 units), see the academic program rules at: [https://calendar.adelaide.edu.au/faculty/ecms](https://calendar.adelaide.edu.au/faculty/ecms)*