Program Code

GDMAR

Program Minimum Units

24

Standard Duration

1 Year

Program Faculty

Faculty of Engineering, Computer and Math Sciences

AQF Level

08

Academic Year

2017

These Program Rules should be read in conjunction with the University's policies (http://www.adelaide.edu.au/policies).

Overview

Programs in marine engineering offer students the opportunity to further develop and enhance their skills and expertise in this field. Courses from a number of other leading universities throughout Australia are also included. Marine engineering programs are structured so that students can complete the degree in steps. This approach provides the opportunity to complete the Graduate Certificate, then Graduate Diploma and finally the Master Degree.
The Graduate Diploma in Marine Engineering is an AQF Level 8 qualification with a standard full-time duration of 1 year.

Conditions

Condition of Admission
Work experience: For applicants without a Graduate Certificate in Marine Engineering a minimum of 1 year of full-time work experience in a relevant field will be required.

Academic Program Rules for Graduate Diploma in Marine Engineering (GDipMarineE)

There shall be a Graduate Diploma in Marine Engineering (GDipMarineE).

Qualification Requirements
Academic Program

To qualify for the Graduate Diploma in Marine Engineering, the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 24 units comprising:

1. Core courses to the value of 9 units
2. Elective courses to the value of 15 units

Graduate Diploma in Marine Engineering

To satisfy the requirements for Graduate Diploma in Marine Engineering students must complete courses to the value of 24 units.

Core

All of the following courses must be completed:

Submarine
MECH ENG 7042 Introduction to Submarine Design (3 units)
MECH ENG 7046 Submarine Design (3 units)
PROJMGNT 7013 Systems Engineering 1 (3 units)

or

Naval (Note: this stream is not available in 2017)
MECH ENG 7048 Introduction to Naval Ship Engineering (3 units)
MECH ENG 7065 Naval Ship Engineering (3 units)
PROJMGNT 7013 Systems Engineering 1 (3 units)

Electives

Courses to the value of up to 15 units may be taken from the following:
APP MTH 7075 Fluid Mechanics (3 units)
CHEM ENG 7047 Composite & Multiphase Polymers (3 units)
COMP SCI 7076 Distributed Systems (3 units)
ELEC ENG 7015 Adaptive Signal Processing (3 units)
ELEC ENG 7033 Principles of RF Engineering (3 units)
ELEC ENG 7046 Power Quality & Fault Diagnostics (3 units)
ELEC ENG 7049 Power Electronics Systems (3 units)
ELEC ENG 7055 Antennas & Propagation (3 units)
ELEC ENG 7069 Electric Energy Systems (3 units)
ELEC ENG 7082 Principles of Control Systems (3 units)
MECH ENG 7020 Materials Selection & Failure Analysis (3 units)
MECH ENG 7021 Combustion Technology & Emissions Control (3 units)
MECH ENG 7023 Fracture Mechanics (3 units)
MECH ENG 7024 Robotics M (3 units)
MECH ENG 7025 Topics in Welded Structures (3 units)
MECH ENG 7026 Advanced Topics in Fluid Mechanics (3 units)
MECH ENG 7027 Engineering Acoustics (3 units)
MECH ENG 7028 Advanced PID Control (3 units)
MECH ENG 7029 Airconditioning (3 units)
MECH ENG 7030 Advanced Vibrations (3 units)
MECH ENG 7034 Advanced Digital Control (3 units)
MECH ENG 7043 Stresses in Plates & Shells (3 units)
MECH ENG 7044 Biomechanical Engineering (3 units)
MECH ENG 7045 CFD for Engineering Applications (3 units)
MECH ENG 7047 Dynamics & Control II (3 units)
MECH ENG 7050 Sustainability & the Environment (3 units)
MECH ENG 7053 Aerospace Propulsion (3 units)
MECH ENG 7059 Finite Element Analysis of Structures (3 units)
MECH ENG 7061 Corrosion: Principles & Prevention (3 units)
MECH ENG 7062 Aircraft Design (3 units)
MECH ENG 7063 Advanced Topics in Aerospace Engineering (3 units)
MECH ENG 7066 Aeronautical Engineering (3 units)

MECH ENG 7067 Aerospace Materials & Structures (3 units)
MECH ENG 7068 Applied Aerodynamics (3 units)
MECH ENG 7070 Heat Transfer & Thermodynamics (3 units)
MECH ENG 7071 Mechatronics II (3 units)
MECH ENG 7072 Micro-Controller Programming (3 units)
MECH ENG 7073 Space Vehicle Design (3 units)
MECH ENG 7074 Structural Design & Solid Mechanics (3 units)
MECH ENG 7075 Sustainable Thermal Technologies (3 units)
MECH ENG 7076 Renewable Fluid Power Technology (3 units)
PROJMGNT 7024 Complex Project Management 1 (3 units)

or

Other Electives may be chosen from another University listed below.

Students may present no more than 6 units of courses denoted with an asterisk

Australian Maritime College:
Design of Marine Machinery Systems (3 units)
Marine Propulsion Systems (3 units)
Ship Design (3 units)
Principles of Naval Architecture (3 units)

Curtin University:
Physical and Acoustical Oceanography (3 units)
Marine Acoustics (3 units)

Courses to the value of 3 units from the following:

RMIT University:
Risk and Technology Decisions (3 units)*

University of South Australia:
Electromagnetic Compatibility (3 units)
Satellite Communications (3 units)

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