

MASTER OF APPLIED SCIENCE



The Australian Maritime College Master of Applied Science degree program focuses on the maritime industries. The program is delivered by distance and the following named specialisations are available:

- **Shipyard Operations**
- **Shipping Operations Management**
- **Maritime Safety**
- **Marine Engineering**

The program – which incorporates a Graduate Certificate and a Graduate Diploma as entry or exit points – provides students with in-depth exposure to a broad range of technical, operational and commercial topics critical to effective and efficient maritime operations. The four specialisations enable students to select a named pathway to suit their own particular interest.

The program is also suited to professional and technical personnel interested in entering the industry, as well as seafarers who are contemplating a shore-based career.

The aims of the program are to provide:

- a pathway for professional development for those who are already involved in maritime operations
- an opportunity for professional seafarers who are contemplating a shore-based career to broaden their knowledge and skill base
- an entry point for professional and technical personnel interested in entering the maritime industries.

Program structures are shown overleaf. The full Master's program requires the completion of four core units, four elective units and a dissertation.

Students choose three units from an Electives Schedule of maritime focused units (degree electives) and an additional unit (student elective) chosen from the University's entire portfolio of postgraduate units.

ELECTIVES SCHEDULE*

- Human Risk Factors in Maritime Operations
- Counter-piracy and Vessel Self-protection
- Contemporary Maritime Issues
- Planning & Decision-making
- Exploring the Maritime Space
- International Maritime Policy
- Ship Design
- Modeling & Simulation of Marine Systems
- Principles of Naval Architecture
- Port Management and Strategy
- Maritime Law
- Maritime Economics
- International Trade
- Marine Environment and Society
- Climate Change and Adaptation
- Services Marketing
- Management
- Financial Resource Management
- Strategic Management
- Supply Chain Management
- Electronic Commerce and Information Technology
- Transformational Leadership
- Business Research
- Research and Information Skills (Science)

*Indicative: the Electives Schedule is continually updated as new units become available.

The core units in each specialisation shown overleaf are available as electives in the other specialisations.

Master of Applied Science (Shipyards Operations)

focuses on the knowledge and skills necessary for the effective management of operations in shipyards, dry docks, ship repair facilities. Students develop expertise in the commercial, production and planning functions and the application of Integrated Management Systems.

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|-------------------------|------------------------------------|------------------------------------|
| Graduate Certificate >> | Marine Superintendency | Management of Shipyards Operations |
| | Degree Elective | Degree Elective |
| Graduate Diploma >> | Management of Engineering Projects | Shipyards Production Processes |
| | Degree Elective | Student Elective |
| Masters | Dissertation | |

Master of Applied Science (Marine Engineering)

develops the expertise required for managing or overseeing technical operations in shipping companies, the ship maintenance & repair sector, regulatory authorities and classification societies.

| | | |
|-------------------------|------------------------------------|--------------------------------|
| Graduate Certificate >> | Marine Superintendency | Marine Surveying & Inspection |
| | Degree Elective | Degree Elective |
| Graduate Diploma >> | Design of Marine Machinery Systems | Shipyards Production Processes |
| | Degree Elective | Student Elective |
| Masters | Dissertation | |

Master of Applied Science (Shipping Operations Management)

concentrates on those subjects that are critical to the safe and effective management of commercial shipping. This specialisation is suitable for professionals undertaking an operational role in shipping companies, chartering, ports management, regulatory authorities and classification societies.

| | | |
|-------------------------|-------------------------------|----------------------------|
| Graduate Certificate >> | Marine Superintendency | Maritime Safety |
| | Degree Elective | Degree Elective |
| Graduate Diploma >> | Harbour Operations & Services | Commercial Ship Management |
| | Degree Elective | Student Elective |
| Masters | Dissertation | |

Master of Applied Science (Maritime Safety)

considers the management of maritime operations from a safety perspective and also examines the impact the maritime sector has on the marine environment and strategies for mitigating this impact.

| | | |
|-------------------------|--------------------------|-----------------------------------|
| Graduate Certificate >> | International Shipping | Maritime Safety |
| | Degree Elective | Degree Elective |
| Graduate Diploma >> | Risk & Crisis Management | Shipping & the Marine Environment |
| | Degree Elective | Student Elective |
| Masters | Dissertation | |

ENTRY REQUIREMENTS

- Relevant bachelor degree; or
- Seafaring qualifications (e.g. Ship Master, Chief Engineer) or equivalent, with relevant experience; or
- Advanced Diploma or equivalent in maritime operations/engineering, with extensive relevant work experience; or
- Extensive relevant work experience at a senior level and a demonstrated potential to undertake postgraduate study.

RECOGNITION OF PRIOR LEARNING (ADVANCED STANDING)

AMC encourages applicants to apply for credit (advanced standing) if they are able to demonstrate that they already possess unit competencies as articulated in the unit's learning outcomes.

MODE OF STUDY AND DURATION

This program will be delivered by distance, with extensive use of current e-learning technologies. A student electing to study full time would be able to complete the program within three semesters. However, the majority of students are likely remain in full-time employment and study part-time. Typically, students study two or three units a year.

Note: Distance study is only available to international students if they are living in a country other than Australia.

CONTACT

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