Program

Marine Science and Management

8271  |  72 Units of Credit

Overview

The Master of Marine Science & Management (MMarScMgt) is a 12 to 18 month full-time program depending on Recognition of Prior Learning (RPL). It is normally taken as a 72 unit of credit program, full-time or part-time. The program can be taken in 48 UOC (1 year full-time equivalent) subject to RPL (e.g. a Bachelor of Science (Honours) or equivalent industry experience).

The Program is aimed at both domestic and international students interested in the interdisciplinary field of marine science and management. Topics in marine science include coastal management and engineering, climate change, marine ecology and conservation, physical oceanography and modelling.

The Master of Marine Science and Management is a joint program between UNSW and three Sydney Institute of Marine Science (SIMS) partner universities. The compulsory course (MSCI6681 Topics in Australian Marine Science) is a tutorial and seminar series jointly taught at SIMS at Chowder Bay, based around the analysis of data-streams from the Integrated Marine Observing System (www.imos.org.au). Students enrol in the program at UNSW, but have the option to complete up to 3 courses (18 UOC) at the partner universities.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
</tr>
<tr>
<td><strong>Typical duration</strong></td>
<td>1.7 Years</td>
</tr>
<tr>
<td><strong>Delivery Mode</strong></td>
<td>Face-to-face</td>
</tr>
<tr>
<td><strong>Intake Period</strong></td>
<td>Term 1, Term 3</td>
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<tr>
<td><strong>Academic Calendar</strong></td>
<td>3+ Calendar</td>
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<tr>
<td><strong>Minimum Units of Credit</strong></td>
<td>72</td>
</tr>
<tr>
<td><strong>Award type</strong></td>
<td>Masters (Coursework)</td>
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<tr>
<td><strong>Award(s)</strong></td>
<td>Master of Marine Science and Management - MMarScMgt</td>
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<tr>
<td><strong>CRICOS Code</strong></td>
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Learning Outcomes

1. Apply advanced numerical, statistical and interpretative skills to specialised areas of marine science and management and environmental science.

2. Communicate research ideas relevant to the study of marine science through the preparation of reports and delivery of seminars targeted at a range of audiences, including scientists, industry managers and the general public.

3. Demonstrate ethical, social and environmental awareness through the investigation of issues such as sustainability in recreational fishing and marine park planning and the restoration of marine ecosystems.

4. Demonstrate the ability to apply the principles of teamwork and collaboration to find synergy and cross-disciplinary expertise.

5. Demonstrate in-depth knowledge of marine science, especially in the links between oceanography, climate and marine ecology.

Graduate Capabilities:

For more information on Graduate Capabilities, please click on this link.
Program Structure

Students must complete 72 UOC as a standalone program.

The MMarScMgt consists of 72 UOC comprised of the following:
- 24 UOC of compulsory Core Courses undertaken at UNSW
- 48 UOC of directed electives from the list on the Handbook. Students may take up to 18 UOC of electives at the three SIMS partner universities (University of Technology Sydney, University of Sydney, and Macquarie University). Students may take up to 18 UOC of stage 3 courses from the list.

Prescribed Electives

Students must take at least 30 UOC, up to a maximum of 48 UOC of the following courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>UOC</th>
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<tbody>
<tr>
<td>BEES5041</td>
<td>6</td>
</tr>
<tr>
<td>BIOS6671</td>
<td>6</td>
</tr>
<tr>
<td>BIOS9123</td>
<td>6</td>
</tr>
<tr>
<td>BIOS9231</td>
<td>12</td>
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<tr>
<td>CHEM7123</td>
<td>6</td>
</tr>
<tr>
<td>GEOS3731</td>
<td>6</td>
</tr>
<tr>
<td>GEOS3761</td>
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</tbody>
</table>

Data Analysis: Environmental Science & Management

Biodiversity and Conservation of Natural Resources

Conservation in Practice

Research Internship in Marine Terrestrial Conservation

Environmental Toxicology

Coastal Processes and Hazards

Environmental Change
<table>
<thead>
<tr>
<th>Course Code</th>
<th>UOC</th>
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</thead>
<tbody>
<tr>
<td>GEOS3921</td>
<td>6</td>
</tr>
<tr>
<td>Coastal Resource Management</td>
<td></td>
</tr>
<tr>
<td>GEOS6733</td>
<td>6</td>
</tr>
<tr>
<td>Environmental Geophysics</td>
<td></td>
</tr>
<tr>
<td>GEOS9011</td>
<td>6</td>
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<tr>
<td>Environmental Impact Assessment</td>
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<tr>
<td>GEOS9012</td>
<td>6</td>
</tr>
<tr>
<td>Remote Sensing Applications</td>
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<tr>
<td>GEOS9016</td>
<td>6</td>
</tr>
<tr>
<td>Principles of Geographic Information Systems and Science</td>
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<tr>
<td>GEOS9017</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Geographic Information Systems and Science</td>
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<tr>
<td>GEOS9019</td>
<td>6</td>
</tr>
<tr>
<td>Special Topic in GIS</td>
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<tr>
<td>IEST5002</td>
<td>6</td>
</tr>
<tr>
<td>Tools for Environmental Management</td>
<td></td>
</tr>
<tr>
<td>IEST5008</td>
<td>6</td>
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<tr>
<td>Protected Area Management</td>
<td></td>
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<tr>
<td>IEST6909</td>
<td>6</td>
</tr>
<tr>
<td>Environmental Management Systems</td>
<td></td>
</tr>
<tr>
<td>IEST6911</td>
<td>6</td>
</tr>
<tr>
<td>Managing Greenhouse Gas Emissions</td>
<td></td>
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</tbody>
</table>
IEST7100  |  6 UOC
Environmental Management: Economics Fundamentals

IEST7200  |  6 UOC
Environmental Management: Law Fundamentals

IEST7500  |  6 UOC
Environmental Management: Engineering Fundamentals

LAWS8086  |  6 UOC
Law of the Sea

LAWS8366  |  6 UOC
Environmental Markets

MATH5285  |  6 UOC
Fluids, Oceans and Climate

MICR9071  |  6 UOC
Marine Microbiology

**Core Courses**

Students must take 24 UOC of the following courses.

MSCI5004  |  6 UOC
Oceanographic Processes

MSCI5005  |  6 UOC
Topics in Marine Biology and Ecology

MSCI6681  |  6 UOC
Topics in Australian Marine Science

MSCI9001  |  6 UOC
Electives (at SIMS Partner Universities)

Students may complete up to 18 UOC from at least two of the three Sydney Institute of Marine Science (SIMS) partner universities; University of Technology Sydney, the University of Sydney and Macquarie University.

Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Related Programs

Master of Environmental Management - MEM

8623 Environmental Management

Faculty: Faculty of Arts and Social Sciences
Campus: Kensington
Units of Credit: 96
Typical Duration: 2 Years

Read More
Admission Requirements

Entry Requirements

The entry requirement is one of the following:

- A Bachelor of Science degree with a weighted average mark (WAM) of 65 or greater. The BSc. degree may be in any discipline of Science; OR
- A Bachelor of Science Honours degree in any Science discipline; OR
- A Bachelor of Science degree with a WAM of 50-65 plus at least 5 years professional experience in a relevant field of marine science or environmental science; OR
- Any degree with an appropriate Science major with numerical or data handing skills plus at least 5 years professional experience in a relevant field of marine science or environmental science.

Students are expected to have completed undergraduate level statistical analysis before commencing this program. Students who do not have this knowledge will be required to enrol into BEES5041 Data Analysis for Environmental Science and Management as one of their directed electives.

Applicants with other relevant qualifications and experience not listed above may apply for admission to this program. In accordance with UNSW Policy and Procedure on Recognition of Prior Learning, applicants will need to demonstrate that they have achieved the same knowledge and skills (learning outcomes) through their formal or informal learning as the qualifications listed for entry into this program. This may be evidenced by qualification certificates, records of assessment activities relating to course or program learning outcomes, examples of experience from the workplace, community, or other context which demonstrate relevant skills, knowledge or competencies, membership (or eligibility for membership) of professional organisations which require attainment of certain qualifications, or testimonials of skills, knowledge or competencies from workplace supervisors. Any relevant documentation should be attached to the application and will be considered by the Academic Coordinator for the Program.

Students with an Honours degree (AQF Level 8) in science may be eligible for up to 24 UOC of advanced standing, depending upon numerical literacy and background in marine science. These students will then need to complete 48 UOC of courses to complete the program which includes 24 UOC of compulsory core courses, 12 UOC of directed electives at UNSW and 12 UOC of electives at two of the partner universities. Advanced standing will be determined on a case-by-case basis by the Program Coordinator.
For more information about admission requirements for various UNSW programs, visit the following website(s):

Domestic Students
International Student
Program Requirements

Progression Requirements

Students can cease enrolment and graduate with a Graduate Certificate in Marine Science and Management (program code 7266) after 24UOC of study providing this includes MSCI6681, and that at least 12UOC have been studied at UNSW.

Students can cease enrolment and graduate with a Graduate Diploma in Marine Science and Management (program code 5266) after 36UOC of study providing this includes MSCI6681, and that at least 18UOC have been studied at UNSW.

Please note that these programs are exit options only - you cannot enrol in these programs.

For more information on university policy on progression requirements please visit Academic Progression.
Pathways

Post Graduate

Graduate Diploma - GradDip
5499 Environmental Management

Faculty: Faculty of Arts and Social Sciences
Campus: Kensington
Units of Credit: 48
Typical Duration: 1 Years

Read More

Graduate Certificate - GradCert
7339 Environmental Management

Faculty: Faculty of Arts and Social Sciences
Campus: Kensington
Units of Credit: 24
Typical Duration: 0.7 Years

Read More

Master of Environmental Management - MEM
8623 Environmental Management

Faculty: Faculty of Arts and Social Sciences
Campus: Kensington
Units of Credit: 96
Typical Duration: 2 Years

Read More
Recognition of Achievement

Award with Excellence

The Award with Excellence is awarded in coursework masters programs, including Masters (Extension) but with the exception of Masters (Extended) such as JD and MD, when a Weighted Average Mean (WAM) of at least 80% has been achieved and at least 50% of the requirements of the award are completed at UNSW. All eligible programs will award 'with Excellence' except in special circumstances where approval of Academic Board has been given for a program to opt out.

For more information, please visit:

Current Students Award with Excellence
Program Fees

At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

Domestic Students
Commonwealth Supported Students
International Students

Additional Expenses

Students will be expected to own their own laptop computer with usual Office software for MSCI6681.

SIMS provides some students (up to 12) with a laptop and also provides them with a virtual desktop on the SIMS server.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions