



THE UNIVERSITY OF
**WESTERN
AUSTRALIA**

Master of Ocean Leadership

This course will provide graduates with the opportunity to build the knowledge and expertise, essential for working in marine-related fields across a range of sectors.

About the Course

The Master of Ocean Leadership (MOL) provides graduates from a range of fields with ocean-related knowledge and experience across science, engineering, law and environmental management to enable graduates to strategically address human challenges in ocean systems and to implement solutions for the future of our coasts and seas.

Students will be equipped to work in multi-disciplinary contexts to lead and contribute to effective teams. The course is a multi-disciplinary and highly interactive program, designed to be flexible and challenging for professionals and recent graduates alike.

The course will provide up to date knowledge about the marine environment, management and governance of the ocean, the use of new technologies in ocean engineering, data analysis and hazards.

Students will build expertise in managing the marine environment and strategic leadership skills in socio-economic and regulatory contexts.

Who Should Enrol

The course is aimed at those working in areas that involve detailed knowledge of the ocean environment and marine resources, as well as their management and regulation - or those seeking work in these areas. The course is designed to meet the needs of graduates working for government agencies, international organisations, marine resource companies, the fisheries sector and tourism.

Fast Facts

UWA is ranked among the top 1% of universities world wide.

UWA is the only Western Australian University to be a member of the prestigious Group of Eight.

UWA is ranked in the top ten globally for ocean engineering and the top 50 globally for marine science.

The UWA Oceans Institute was established in 2010 and includes over 100 of UWA's finest ocean engineers, marine scientists, oceanographers, oceans governance specialists as well as leaders in economics, management and innovation.



**GROUP
OF EIGHT
AUSTRALIA**

MEMBER



Research Strengths in Ocean Leadership

At UWA, ocean research is focused on addressing key ocean challenges by delivering ocean-based solutions. Providing multi-disciplinary capabilities and excellence in marine research and technology, the team provides an integrated approach to the challenges of sustainable ocean resources, resilient ecosystems, informed marine governance and understanding and ocean exploration.

Course Content - Core Units

The Indian Ocean Environment

Provides an overview of the dynamic processes governing the structure and function of marine ecosystems, with a particular focus on applications from the Indian Ocean. The unit will introduce key concepts in physical, chemical, biological and geological ocean systems.

Working with Multiple Disciplines

Introduces students to the value of working across disciplines, broadening boundaries of knowledge and methodologies, and developing new insights and problem solving skills.

Oceans Governance

Students will analyse and evaluate key oceans policy initiatives with a focus on achieving the goals of the blue economy. Governance frameworks do not operate in isolation and therefore this unit will involve critically analysing how well science and technology are embedded and whether they contribute effectively to a governance framework.

Ocean Engineering and Technology

Provides a broad introduction to aspects of ocean engineering and technology and the interface with biological and social sciences.

Ocean Data and Analysis

This unit, with a strong practical component, includes the application of different methods to analyse physical and biogeochemical data sets. It will cover a range of data analysis topics, including strategies for problem solving, and reviewing and consolidating data generated via a range of mechanisms.

Ocean Hazards

Ocean hazards can have devastating impacts on our coasts and their communities. This unit will cover the processes that lead to these hazards including their prediction, and will explore different mitigation and planning options.

Sustainable Marine Management and Planning

Students will explore cutting-edge sustainability practices for management and planning relating to issues such as climate change, fisheries, fossil and renewable energy, aquaculture, tourism and endangered species conservation both within and beyond areas of national jurisdiction.

Strategic Leadership for the Blue Economy

This unit provides an introduction to strategic leadership and innovation in the context of the oceans. In particular, it explores the concepts of leadership and the strategic planning process within organisations.

Electives

As well as completing the core units students can select from a range of electives in fields such as marine science, ocean engineering, conservation, resource economics, leadership and management, international relations, science communication, law and policy.

See UWA 2018 Handbook for full list of electives:

handbooks.uwa.edu.au

Delivery

The course is offered on a full time and part time basis. The units are delivered in a variety of modes including intensive blocks and semester based weekly classes. The course will involve a combination of lectures, tutorials and practical sessions. Content will be led by The University of Western Australia and involve adjunct and guest lecturers from industry and government.

How to Apply

Applications will open late 2017 with the course commencing Semester 1, 2018.

To find out more contact us as per the details below

Faculty of Engineering and Mathematical Sciences

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