



Course

# Environmental Microbiology

MICR3071 | 6 Units of Credit

## Overview

The field of Environmental Microbiology offers great potential for the development of new and innovative strategies and products for the management and protection of the environment. In this course, students learn of the vital role of microbes in marine, freshwater and terrestrial ecosystems by exploring the dynamic interactions that take place between microbial communities, the surroundings and higher organisms. A series of lectures and practical sessions cover key themes in contemporary environmental microbiology including microbial diversity and function, sensing and adaptive responses of bacteria, biogeochemical cycling and microbial communities and interactions. Laboratory sessions allow students to gain experience in the experimental design and practical skills of research in the context of mini-research projects involving environmental issues. Students will gain theoretical and practical experience in modern molecular techniques for the direction, phylogeny and tracking of microbial communities. An online component of the course is used to support laboratory activities and help students track their own progress and understanding of the course content. This course emphasises how the principles and techniques of Environmental Microbiology can be applied to a range of environmental problems and lead to the development of sustainable resources and commercial applications, as expanded in Environmental Biotechnology (BIOT3081). Note: Highly recommended: MICR2011, BIOC2201, BIOS2021 or BIOS2621.

**Faculty**

Faculty of Science

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**School**

School of Biotechnology and Biomolecular Sciences

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**Study Level**

Undergraduate

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**Offering Terms**

Term 1

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**Campus**

Kensington

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**Delivery Mode**

Fully on-site

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**Indicative contact hours**

7

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**Timetable**

[Visit timetable website for details](#)

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# **Conditions for Enrolment**

Prerequisite: MICR2011

## **Exclusion Courses**

MICR9071 | 6 UOC

Marine Microbiology

## **Course Outline**

To access course outline, please visit:

[MICR3071 Course Outline](#)

## Fees

Commonwealth Supported Students \$1170

Domestic Students \$5760

International Students \$5760

### DISCLAIMER

Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the [fee website](#).

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.

## **Pre-2019 Handbook Editions**

Access past handbook editions (2018 and prior)

[Pre-2019 Handbook Editions](#)

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Authorised by Deputy Vice-Chancellor (Academic)

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