RMIT UNIVERSITY

Master of Environmental Science and Technology

2019
Postgraduate

The Master of Environmental Science and Technology equips you with the skills to manage environmental projects, while providing an in-depth understanding of the relevant methods and technologies.

Our world is facing an ever-increasing number of environmental issues. Solving these problems requires experts who can provide ethical, high-level specialist advice to industry, government and community sectors. The skills required to become a specialist in this area include:

- an understanding of the science relating to environmental change
- an ability to interpret data
- knowledge of current and emerging technologies
- capabilities to design and conduct research projects
- communication skills for a wide range of audiences
- ability to function with a high level of autonomy.

This program has been designed to provide you with these skills, giving you a competitive edge in the current environmental industry job market. Development of these attributes will be an integral part of your progression through the program.

A research project during the final year of your studies will consolidate your learning.

Career outlook

The growing global focus on environmental issues has led to a considerable expansion in environment-related jobs. Employment growth in the field has grown considerably over the last five years, so professionals with a postgraduate qualification in environmental science and technology are in high demand.

Graduates with a multidisciplinary skill set have a broad range of career options within the public and private sectors, including environmental management, research, and policy development.

There is a shortage of qualified environmental science professionals who can provide high-level advice to workplaces including:

- environmental consultancies
- government agencies
- resource management
- research and education
- mining and manufacturing industries.

Learning and teaching

The main modes of delivery will be through lectures, online delivery, tutorials and some laboratory and field work.

All courses will have an online presence. You will be expected to contribute to tutorial discussions as professionals. There will be some field work in intensive mode.

Industry connections

Throughout this program there will be opportunities for you to interact with industry and the community.

Several courses invite industry partners to participate in the delivery of classroom activities and provide opportunities for research projects. These activities will include the development of project proposals, working with clients and risk management.

Opportunities for projects may come from industries such as landfill operations, water and catchment management, and contaminated land management. There may also be opportunities to work with government agencies such as the EPA, CSIRO, Department of Environment, Land, Water and Planning, and Department of Economic Development, Jobs, Transport and Resources.

Professional recognition

The Master of Environmental Science and Technology will satisfy the educational component of the requirements to become a certified environmental practitioner. Graduates may apply to become members of the Environment Institute of Australia and New Zealand (EIANZ) which offers certification and provides access to a wide professional network, workshops, seminars, conferences and publications.

Program snapshot

Program code: MC191

Exit points

After completing 96 credit points of study approved by the program manager, you may exit with a graduate diploma.

Duration

Full-time: 2 years
Part-time: 4 years

Location

City and Bundoora campuses

Program Manager

Associate Professor Graeme Allinson
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How to apply

Direct to RMIT University:
rmit.edu.au/programs/apply/direct

Fees

To learn how to calculate your fees visit:
rmit.edu.au/programs/fees/postgraduate

rmit.edu.au/programs/mc191

Program structure

The Master of Environmental Science and Technology consists of 192 credit points.

After completing 96 credit points of study approved by the program manager, you may exit with a graduate diploma.

Year 1

You will complete six compulsory courses preparing you to operate as a professional in the environmental sector, manage projects and carry out research.

You will study fundamental science and technology in classes and workshops. You will also learn about new and developing sustainable technologies and environmental protection methods.

You will also complete two elective courses allowing you to undertake studies to suit your specific interests.

Year 2

You will do a research project in your interest area and complete a range of science and technology electives.

Program elective examples

- Environmental Chemistry 1A Fundamentals
- Introduction to Statistics
- Principles and Practice of Work Health and Safety
- Energy and Earth's Environment
- Project Management
- Sustainable Energy Fundamentals
- Ethics and Sustainability
- Marine Biology
- Marine and Geological Systems (MAGS)
- Ecotoxicology
- Environmental Management Systems and Tools
- Environmental Microbiology
- Environmental Sustainability Project International
- Environmental Analytical Chemistry Licence
- Remote Sensing
- GIS Principles
- GIS Applications
- Satellite Positioning
- Photovoltaic Systems
- Biomass and Solar Fuels
- Wind and Hydro Power
- Science Work Project
- Occupational Hazards and Control 1
- Toxicology and Chemical Safety
- Plant Cell and Tissue Culture.

Year 1	The Professional Scientist	The Hydrosphere	The Atmosphere	Program elective
	The Soil Environment	GIS Fundamentals	Ecology	Program elective
Year 2	Research Methods	Environmental Management Systems and Tools	Environmental Sampling and Analysis	Environmental Science Project
	Program elective	Program elective	Program elective	Program elective

Compulsory courses Program electives

Please note: This is an example of the program structure and program electives. Courses may change and may not be available each semester.

Entry requirements

You must have completed a bachelor, or a master by coursework degree, in Science or Engineering with a GPA greater than 2.0 out of 4.0.

Credit and exemptions

If you have successfully completed one of the following qualifications majoring in Environmental Science, you will be eligible for exemptions as follows:

Qualification level	Exemptions	Remaining program duration
Graduate certificate in the same discipline	Up to 48 credit points (equivalent to one semester of full-time study)	144 credit points (equivalent to three semesters of full-time study)
Graduate diploma in the same discipline	Up to 96 credit points (equivalent to two semesters of full-time study)	96 credit points (equivalent to two semesters of full-time study)

Note: AQF exemptions cannot be used to exit with a graduate diploma.