MASTER OF BIOTECHNOLOGY

Incorporating

Graduate Diploma in Biotechnology
Graduate Certificate in Biotechnology
OVERVIEW

The Master of Biotech program (MC111) is taught by RMIT science academics as well as experts from industries and other research institutes. Students has the option to undertake this program or to specialise in one of the following streams:

- Clinical microbiology (MC154)
- Environmental and agricultural biotechnology (MC155)
- Food microbiology (MC156)
- Food science and technology (MC157)
Key Features:

• The opportunity to specialise in different areas of biotechnology including environmental and agricultural biotechnology, food microbiology, clinical microbiology and food science and technology.

• Strong emphasis on hands-on laboratory work, in state-of-the-art facilities and keep abreast of recent advances in biotechnology and application of frontier technologies.
Key Features (continued)

• High-achieving students have the opportunity to do in 2\textsuperscript{nd} year of the program either
  - one semester of full-time research
  - or industry work experience designed to enhance employment opportunities

• Graduates have excellent career prospects to work in diverse fields of biotechnology.

• Exit points at Graduate Certificate, Graduate Diploma and Master levels.
Duration

• Master: two years full-time or four years part-time.

• Graduate Diploma: one year full-time or two years part-time.

• Graduate Certificate: six months full-time or one year part-time.

Note: international students can only study full-time.
ENTRANCE REQUIREMENTS

Master of Biotechnology

• A degree in Biological Sciences or

• Other Science degrees - Preferably with Chemistry to at least first year level.

• Past Applicants had degrees in Medicine, Veterinary Science, Dentistry, Agricultural Science or Chemical Engineering.
Specific requirements

• *Clinical microbiology*: 
  requires Microbiology and Biochemistry or Molecular Biology to at least second year undergraduate level. Microbiology at final year level is preferred.

• *Food microbiology*: 
  requires Microbiology and Biochemistry or Molecular Biology to at least second year undergraduate level. Microbiology at final year level is preferred.
Specific requirements *(continued)*

- **Food science and technology:**
  - a degree in Biological Sciences or
  - Food Technology with Microbiology to at least second year.
  - A degree in Food Technology or
  - in Science or Engineering with appropriate experience in the food industry is preferred.

- **Agricultural and environmental biotechnology:**
  - requires Plant Science (Physiology) and Genetics to second year level. A major in Genetics or Biotechnology is preferred.
  - Environmental Biotechnology requires Biology and Chemistry (or Biochemistry) to at least second year level.
PROGRAM STRUCTURE:

The master program consists of 192 credit points. This incorporates the graduate diploma (96 credit points) and the graduate certificate (48 credit points).

Refer to RMIT website:

PATHWAY

Relevant work experience at an appropriate level and duration is recognised as an equivalent to one full-time semester or one part-time year. Applications for recognition of work experience are assessed on an individual basis.
Professional recognition

Depending on the courses chosen, graduates of this program are eligible to apply for membership of one or more of the following professional societies:

• Australian Society for Microbiology,

• Australian Society for Biochemistry and Molecular Biology,

• American Society for Microbiology,

• Australasian Plant Pathology Society,

• British Mycological Society,
Professional recognition (continued)

- Australian Institute of Biology,
- International Society for Human and Animal Mycology,
- The Society for Ecotoxicology and Chemistry,
- The Asian Fisheries Society,
- The World Aquaculture Society,
- The Zoological Society of London,
- The Australasian Society for Ecotoxicology,
- The Australian Society for Limnology.
Career outlook

Graduates from this program are employed in biotechnology and pharmaceutical industries (e.g. vaccine production), medical research institutes, universities and hospitals as research staff or in diagnostic microbiology.
CONTACT INFORMATION

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