This cutting-edge course provides hands-on experience with the latest techniques in biotechnology and bioinformatics research as well as bio-processing and production technologies.

You will gain experience in the use of various molecular biology techniques and bioinformatics tools, along with the opportunity to operate analytical equipment similar to those in industrial-scale production facilities.

Course overview

In this course you will learn a wide range of emerging topics in biotechnology, research management and important business skills. This course establishes your skills which opens up a wide range of career outcomes in biotechnology and bioinformatics in research, government and private institutions.

Course structure

Location: Geelong Waurn Ponds Campus
Duration: 2 years full-time study (or part-time equivalent)
Intake: March (Trimester 1), July (Trimester 2)
Deakin code: S772

To be awarded the Master of Biotechnology and Bioinformatics you must complete 16 credit points (cp) of study including:

- seven core units (7cp)
- one elective unit (1cp)
- a Research pathway (8cp) OR an Industry Practice pathway (4cp)
- plus four elective units (4cp).

In addition you will have to complete two zero credit point units relating to academic integrity and lab safety.

Research Pathway or Industry Practice

In the second year of the Master of Biotechnology and Bioinformatics, you will have the opportunity to complete a research pathway or an industry practice pathway experience which includes additional elective units.

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<tr>
<th>Year 1</th>
<th>Core units</th>
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<tr>
<td></td>
<td>Academic Integrity (0 credit points)</td>
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<td></td>
<td>Agricultural Biotechnology</td>
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<td>Frontier Techniques in Biotechnology and Nanotechnology</td>
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<td>Bioinformatics and Molecular Biology Techniques</td>
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<td>Industrial and Analytical Techniques in Biotechnology</td>
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<td></td>
<td>Laboratory and Fieldwork Safety Induction Program (0 credit points)</td>
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<td>Research Frontiers Project</td>
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<td>Research Impact and Management</td>
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<td>Research Planning &amp; Communication</td>
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<td></td>
<td>One level 7 elective unit</td>
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<tr>
<th>Year 2</th>
<th>Research Pathway</th>
<th>Industry Practice Pathway</th>
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<tbody>
<tr>
<td></td>
<td>Research Thesis 1</td>
<td>Industry Practice</td>
</tr>
<tr>
<td></td>
<td>Research Thesis 2</td>
<td>Four level 7 elective units</td>
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</table>

1 Level 7 units are taught at a postgraduate level, you are able to choose units from other courses and faculties, your selected unit will then be approved by your Course Director.
**Why study at Deakin University?**

Deakin is ranked in the top 1% of universities worldwide according to all major international university rankings. This rating indicates world-class facilities, research and teaching, as well as employability, innovation and inclusiveness.

As a multi-award winning and internationally recognised university, we offer students a first-rate learning experience. We are known for being accessible, accomplished and friendly – and we are dedicated to giving our students the best start in their chosen careers.

1 ARWU, the Times Higher Education World University Rankings and QS World University Rankings.

**Career opportunities**

You will be uniquely positioned to commence a PhD or research roles in industry, education, government, policy developments and teaching. Depending on your chosen area/s of expertise, you may choose to seek employment as an animal scientist, botanist, chemist, food scientist, material scientist, metallurgist, molecular biologist, communications specialist, researcher or science journalist.

**Potential employers**

Potential employers include government, industrial or private research institutes and departments, private research institutes, private commercial companies, health sector, industrial research companies, universities, schools, agriculture and food sector, and many more.

A biotechnology qualification is also highly relevant and extremely versatile in Research and Development (R&D) roles within both public and private sector research institutes. Many biotech companies engaged in manufacturing employ qualified biotechnologists as manufacturing associates in a supervisory and management capacity.

Graduates also have the opportunity to become biotech product specialist and play a valuable role in marketing and selling a variety of biotechnological products ranging from biotech instruments to reagents related to genomics or proteomics. Many biotechnologists are also engaged in the rapidly expanding field of bioinformatics and contribute towards drafting biotech patent applications under the supervision of a patent lawyer.

**Scholarships**

A Deakin scholarship could help you pay for your course fees, living costs and study materials. If you’ve got something special to offer Deakin – or maybe you just need a bit of extra support - we’ve got a scholarship opportunity for you. Please visit deakin.edu.au/courses/scholarships or speak to a Deakin representative to learn more about our scholarships.

**Engage with industry**

Industry connectedness is an integral part of the Master of Biotechnology and Bioinformatics. Students have opportunities to gain an industry perspective, establish professional networks prior to graduation, learn from industry guest lectures, participate in site visits and engage in industry-linked research projects.

**Postgraduate bursary**

If you are a Deakin alumni commencing a postgraduate award course, you may be eligible to receive a 15% reduction per unit on your enrolment fees.

**Interested in applying?**

**Entry requirements**

- Bachelor degree in related discipline with a WAM (or equivalent average grade indicator) of 60, OR
- Graduate Certificate in related discipline, OR
- Bachelor degree in any discipline PLUS three years relevant work experience

**How to apply**

Applications can be made online via deakin.edu.au/apply.

For more information about entry requirements, submitting an application or the application process, please visit deakin.edu.au/courses/how-to-apply.