

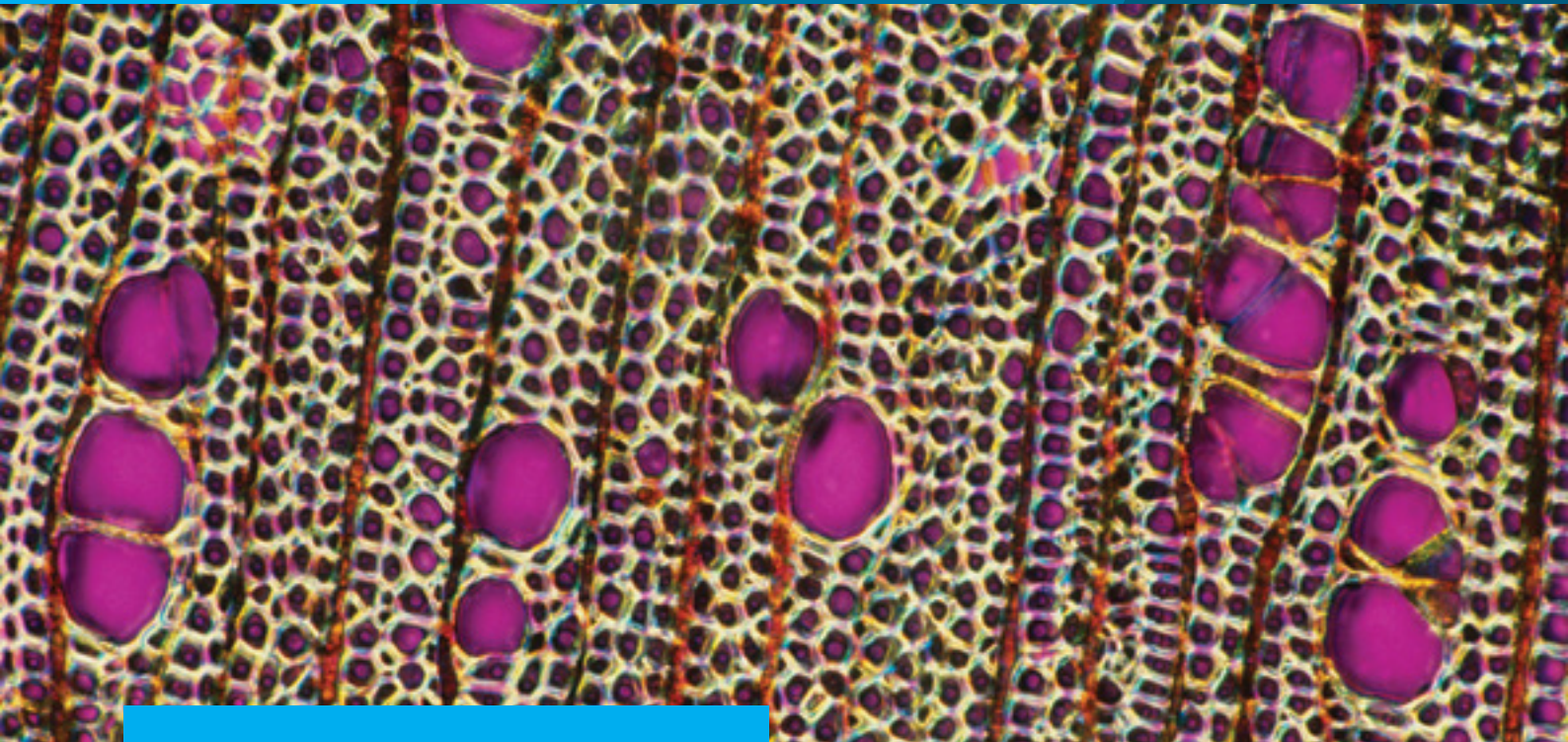
# Biotechnology and Biomolecular Sciences

Postgraduate Coursework Degrees and Research Degrees

Never Stand Still

Science

Biotechnology and Biomolecular Sciences



Biochemistry,  
molecular biology,  
genetics and  
microbiology  
are the key  
foundations of  
modern biology,  
biomedicine and  
biotechnology.

UNSW offers a range of basic and advanced programs in these disciplines to prepare students for the science of tomorrow. These programs are ideal for students interested in understanding and appreciating biological processes at the molecular level. The disciplines also represent fundamental components of medical science and play an increasingly important role in many aspects of modern medicine.

## Contacts:

### Coursework and Research

Biochemistry and Molecular Genetics, Biotechnology, Microbiology and Immunology

### BABS School Office

+61 2 9385 2029

[babs-pg@unsw.edu.au](mailto:babs-pg@unsw.edu.au)

[babs.unsw.edu.au](http://babs.unsw.edu.au)

### Graduate Research School

[grs.unsw.edu.au](http://grs.unsw.edu.au)

### Graduate Diploma

+61 2 9385 1844

[admissions@unsw.edu.au](mailto:admissions@unsw.edu.au)

## Coursework Degrees

### Graduate Diploma (by Research)

<b>Program Code:</b>	5304	<p>This program is tailored according to the background and requirements of the individual student and the expectation is that they may progress to a higher degree research program upon completion of this program. It provides advanced study for graduates who wish to obtain training in areas of biotechnology and biomolecular sciences.</p> <p>Students are required to complete three 6 UOC courses of 3rd year level or higher and will also undertake a significant research project supervised by an approved BABS supervisor or an affiliated institution.</p>
<b>Commencement:</b>	Semester 1 or Semester 2	
<b>Units of credit:</b>	48	
<b>Length of study:</b>	1 year full-time or equivalent part-time	
<b>Entry requirement:</b>	A recognised 3 year Bachelor degree in a relevant area. Admission also depends on the availability of approved supervision. Students with an Honours degree or higher and who have undertaken a significant research project would normally be directed to the MPhil, MSc by research or a PhD program depending on previous training.	

## Research Degrees

### Master of Philosophy (Biotechnology and Biomolecular Sciences)

<b>Program Code:</b>	2475	<p>The Master of Philosophy in Biotechnology and Biomolecular Sciences, MPhil (BABS), includes advanced study in all areas of biotechnology and biomolecular sciences, providing students with a strong qualification through emphasis on research training supplemented with a substantial coursework component. This combination will provide information on and laboratory experience with modern, sophisticated techniques that apply to a wide range of biotechnology, microbiology, genetics, and molecular biology fields. Students complete a component of coursework including research methodology and a thesis comprising an original piece of research work, of a limited scope but at least 66% of the degree.</p>
<b>Length of study:</b>	1.5 years full time or equivalent part time of advanced study leading to the submission of a thesis. The minimum duration for completion is 1 year.	
<b>Entry requirement:</b>	A recognised Bachelor degree in a relevant area with > 65 (Credit) average or, for overseas applicants, a 1st Class degree or 4-year degree in a relevant discipline. Admission also depends on the availability of approved supervision.	

### Master of Science (by Research)

<b>Program Code:</b>	2460 (Biochemistry and Molecular Genetics) 2036 (Biotechnology) 2490 (Microbiology and Immunology)	<p>This program requires the completion of an original piece of research, more limited in scope and nature than a PhD. Candidates develop mastery of appropriate methodology and learn the fundamentals of research. Findings are presented in a thesis that places the work in the wider context of their discipline.</p>
<b>Length of study:</b>	1.5 to 2 years full time or equivalent part time of advanced study leading to the submission of a thesis. The minimum duration for completion is 1.5 years.	
<b>Entry requirement:</b>	The minimum entry requirement is a 4-year Bachelor degree with Honours or completion of a Bachelor degree and substantial laboratory experience. Admission also depends on the availability of approved supervision.	

### Doctor of Philosophy

<b>Program Code:</b>	1410 (Biochemistry and Molecular Genetics) 1036 (Biotechnology) 1440 (Microbiology and Immunology)	<p>A PhD requires the completion of a piece of research that demonstrates a significant and original contribution to knowledge in the field of study. Candidates acquire advanced specialist research training under academic supervision. The candidates thesis summarises the research and provides evidence for independent thought and critical analysis, effective communication and expert knowledge of the discipline in the international context.</p>
<b>Length of study:</b>	3 to 4 years full time or equivalent part time of advanced study leading to the submission of a thesis. The minimum duration for completion is 3 years.	
<b>Entry requirement:</b>	The minimum entry requirement is a 4-year Bachelor degree with First or Upper Second Class honours or completion of a Bachelor degree and substantial laboratory experience. Admission also depends on the availability of approved supervision.	