Overview

Genetics is the study of the behaviour of the genes that are fundamental to all living organisms. In humans and all other species, genes influence every characteristic, from chemistry to appearance to behaviour to disease. Because genes affect every characteristic of every organism, each new development in genetics has had far-reaching consequences. Molecular biology has had a major impact on this discipline and is ideal for students whose interests are in understanding and appreciating biological processes at the molecular rather than descriptive level.

A major in Molecular Genetics is only available to students enrolled in the Bachelor of Medical Science program.
<table>
<thead>
<tr>
<th>Faculty</th>
<th>Faculty of Science</th>
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<tbody>
<tr>
<td>School</td>
<td>School of Biotechnology and Biomolecular Sciences</td>
</tr>
<tr>
<td>Study Level</td>
<td>Undergraduate</td>
</tr>
<tr>
<td>Minimum Units of Credit</td>
<td>66</td>
</tr>
<tr>
<td>Specialisation Type</td>
<td>Major</td>
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</table>
Available in Program(s)

Program(s) in which this major is available

Bachelor of Medical Science - BMedSc

3991 Medical Science

Faculty: Faculty of Science
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 Years
Specialisation Structure

Students must complete 66 UOC.

Core Courses

Students must take 60 UOC of the following courses.

- **BABS1201** | 6 UOC
  Molecules, Cells and Genes

- **BABS2204** | 6 UOC
  Genetics

- **BABS3151** | 6 UOC
  Human Molecular Genetics and Disease

- **BABS3291** | 6 UOC
  Genes, Genomes and Evolution

- **BIOC2101** | 6 UOC
  Principles of Biochemistry (Advanced)

- **BIOC2201** | 6 UOC
  Principles of Molecular Biology (Advanced)

- **CHEM1011** | 6 UOC
  Chemistry 1A: Atoms, Molecules and Energy

- **CHEM1021** | 6 UOC
  Chemistry 1B: Elements, Compounds and Life

- **MATH1041** | 6 UOC
  Statistics for Life and Social Sciences
**Prescribed Electives**

Students must take at least 6 UOC of the following courses.

- **BABS3281 | 6 UOC**
  Molecular Frontiers

- **BINF3010 | 6 UOC**
  Applied Bioinformatics

One of the following:

- **BABS3021 | 6 UOC**
  Microbial Genetics

- **MICR3621 | 6 UOC**
  Microbial Genetics (Advanced)

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**Enrolment Disclaimer**

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Additional Information

Honours

Students seeking to enrol into Honours in Genetics or Molecular Biology should refer to program 4500 - Science (Honours) and contact the School of Biotechnology and Biomolecular Science.
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)
CRICOS Provider Code 00098G
ABN: 57 195 873 179