Program guide
Bachelor of Science with Human Biology Major

The Bachelor of Science is a three year full-time equivalent degree offered by the Faculty of Science and Engineering. To be awarded the Bachelor of Science degree, you must complete 69 credit points (cp) of study, including one major. Each unit of study is worth 3 cp. The Human Biology is a 36 cp major and below is a suggested study pattern for students planning a Bachelor of Science with a major in Human Biology.

First year enrolment guide

In the first year, students majoring in Human Biology are required to complete 6 cp from a choice of units in biology, chemistry, psychology and anatomy. A full-time student will typically enrol in a further 18 cp (nine units), from the prescribed units within the Human Biology Major or from elective units. Below is an example first-year program followed by an explanation of how this program can be modified to suit your background and interests.

Please note that this is a guide only. To view the complete list of units within the Bachelor of Science with Human Biology Major visit the Macquarie University Handbook.

<table>
<thead>
<tr>
<th>SESSION 1</th>
<th>Unit code</th>
<th>Unit name</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL114</td>
<td>Evolution and Biodiversity</td>
<td>3</td>
<td></td>
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<tr>
<td>HLTH108</td>
<td>Anatomical Sciences I</td>
<td>3</td>
<td></td>
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<tr>
<td>CBMS101</td>
<td>Introductory Chemistry</td>
<td>3</td>
<td></td>
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<tr>
<td>See below</td>
<td>elective</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>SESSION 2</th>
<th>Unit code</th>
<th>Unit name</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL115</td>
<td>The Thread of Life</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HLTH109</td>
<td>Anatomical Sciences II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CBMS103</td>
<td>Organic and Biological Chemistry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>STAT170</td>
<td>Introductory Statistics</td>
<td>3</td>
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Many students complete a People or a Planet unit as an elective in their first year. At least one of the People and Plant units has to be outside the Faculty of Science and Engineering. Statistics (STAT170) is also a common first year unit as it provides basic statistical knowledge and is a prerequisite for some second year Human Biology units. Alternative units to those in the first year guide above include Human Biology (BIOL108), introductory psychology units (PSYC108 and PSYC109), BBE100 and ANTH151. These units all contribute to the 36 cp required for the Human Biology Major.

Assumed knowledge

No background knowledge is assumed. Although mathematics, physics and chemistry are not required, some background knowledge is helpful. If you have not studied Chemistry recently and plan to enrol in CBMS101, you may want to take a Bridging Course which is offered in February. [http://web.science.mq.edu.au/bridging-courses/](http://web.science.mq.edu.au/bridging-courses/)

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Second and third year units

In the second year of the Human Biology Major, students must complete **BIOL247 Systems Physiology** and **BIOL257 Neurophysiology** and 9 cp (3 units) chosen out of the following prescribed units. You should choose these units based on the units you are interested in taking in the third year.

- **BIOL206 Genetics** is a prerequisite for BIOL345 Human Genetics Theory
- **BIOL235 Experimental Design and Data Analysis for Biology** is a prerequisite for STAT 395 Biostatistics and Epidemiology
- **CBMS204 Organic Synthesis** is a prerequisite for CBMS306 Medicinal Chemistry
- **CBMS215 Microbiology** is a prerequisite for CBMS335 Medical Microbiology
- **CBMS223 Biochemistry** is a prerequisite for CBMS337 Biochemistry and Cell Biology
- **CBMS224 Molecular Biology** is a prerequisite for CBMS337 Biochemistry and Cell Biology
- **HLTH200 Contemporary Health Issues** is a prerequisite for HLTH310 Health Promotion
- **HLTH213 Anatomical Sciences 3**
- **HLTH214 Anatomical Sciences 4**
- **HLTH215 Principles of Health and Disease 1** is a prerequisite for HLTH316 and HLTH 317 Principles of Health and Disease 2 & 3
- **PSY224 Psychology, Health and Wellbeing**
- **PSY236 Biological Psychology and Learning**
- **BBE200 Animal Behaviour**
- **ANTH202 Illness and Healing**
- **PHL249 Biology, Mind and Culture**

In the third year of the Human Biology Major, students must complete **BIOL376 Advanced Human Physiology**, which is the Human Biology Major capstone unit, plus 9 cp (3 units) from the following prescribed units.

- **HLTH306 Research Methods for Health Science**
- **HLTH316 Principles of Health and Disease 2**
- **HLTH317 Principles of Health and Disease 3**
- **HLTH310 Health Promotion**
- **BIOL345 Human Genetics Theory**
- **BIOL367 Immunobiology**
- **CBMS306 Medicinal Chemistry**
- **CBMS335 Medical Microbiology**
- **CBMS337 Biochemistry and Cell Biology**
- **PSY354 Clinical and Experimental Neuroscience**
- **STAT395 Biostatistics and Epidemiology**

In addition to fulfilling the requirements of the Human Biology Major and completing a People, a Planet and a PACE unit students require **24 more cp** (total 69 credit points). Of these, **6 cp must be 300 level units** with another **6 cp of 200 or 300 level units**. In addition to the major, students must complete another **6 cp of Science designated units**.

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**Need help with subject selection?**
Science Student Centre
T: (02) 9850 6000
E: scienceenquiries@mq.edu.au
Location: E7A 102

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**Enrol in your units**

- You can enrol online through your eStudent account
- Refer to the online handbook for your degree each time you enrol in units
- Check the timetable for unit and class times

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