## Bachelor of Biomedicine

### Course Structure for Bachelor of Biomedicine

Each standard subject is worth **12.5 credit points**. A standard **full-time study load** is four subjects (50 points) per half-year period. The **Bachelor of Biomedicine** requires the successful completion of **22 subjects (300 points)**, including two 25 points core subjects.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>First half</th>
<th>BIOL10002 - Biomolecules and Cells</th>
<th>CHEM10006 - Chemistry for Biomedicine</th>
<th>Maths Subject*</th>
<th>Breadth</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Second half</td>
<td>BIOL10003 - Genes and Environment</td>
<td>Physics Subject OR Engineering Systems Design 2*</td>
<td>Maths Subject*</td>
<td>Breadth</td>
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<table>
<thead>
<tr>
<th>Year 2</th>
<th>First half</th>
<th>BIOM20001 - Molecular and Cellular Biomedicine (25 points)</th>
<th>Biomedicine Selective</th>
<th>Breadth</th>
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<tr>
<td></td>
<td>Second half</td>
<td>BIOM20002 - Human Structure and Function (25 points)</td>
<td>Biomedicine Selective</td>
<td>Breadth</td>
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<thead>
<tr>
<th>Year 3</th>
<th>First half</th>
<th>BIOM30002 - Biomedicine: Molecule to Malady</th>
<th>Major Subject</th>
<th>Major Subject</th>
<th>Breadth OR Biomedicine Selective</th>
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<tbody>
<tr>
<td></td>
<td>Second half</td>
<td>BIOM30001 - Frontiers in Biomedicine</td>
<td>Major Subject</td>
<td>Major Subject</td>
<td>Breadth OR Biomedicine Selective</td>
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### Major Subjects

Major subjects are a set of 50 points of level 3 study taken by all students studying the major.

Some major subjects require specific prerequisites to be completed prior. These prerequisites can be satisfied by taking them as selectives.

*For example, Bioengineering Systems majors are required to do BMEN20001 Biomechanical Physics and Computation & MAST20029 Engineering Mathematics as prerequisites for their level 3 major subjects.*

### Major Prerequisites

Major prerequisite subjects enable entry into subjects required for your major. For some level 1 subjects, the specific subjects and the order in which you take them will depend on your major and previous study.

*Maths subjects*: All biomedicine students must take two level 1 maths subjects in Year 1.

*Physics/Engineering Systems*: Depending on your intended major and previous study, you will either need to complete a physics subject or Engineering Systems Design 2.

### Selective Subjects

You can choose selectives to suit your interests from a select list. At least 12.5 credit points (typically one subject) must be at level 2. Some majors require additional prerequisite subjects at level 2.

For available selective subjects: [go.unimelb.edu.au/cy5r](go.unimelb.edu.au/cy5r)

### Core Subjects

Compulsory course core subjects must be taken by all students enrolled in the Bachelor of Biomedicine.

### Breadth Subjects

Breadth subjects are subjects taken from outside your area of study. You must complete a minimum of four subjects including at least one from level 2 or 3.
NOTES ABOUT THE BACHELOR OF BIOMEDICINE

Course requirements
Level 1 (75 points)

- Three core subjects (37.5 points)
  - BIL10002 Biomolecules and Cells (12.5 points)
  - CHEM10006 Chemistry for Biomedicine (12.5 points)
  - BIL10003 Genes and Environment (12.5 points)

- One physics/engineering subject (12.5 points)
  
  **Standard Pathway:**
  - If you have received a study score of at least 25 in VCE Physics or equivalent:
    - PHYC10006 Physics 2: Life Sciences and Environment
  - All other students take:
    - PHYC10007 Physics for Biomedicine
  
  **For Bioengineering Systems Major:**
  - ENGR10003 Engineering Systems Design 2

- Two maths subjects (25 points)
  
  **Standard Pathway:**
  - If you've completed VCE Biology 3/4 or equivalent:
    - Sem 1: MAST10016 Mathematics for Biomedicine (12.5 points)
    - Sem 2: MAST10011 Experimental Design and Data Analysis (12.5 points)
  - All other students take:
    - Sem 1: MAST10011 Experimental Design and Data Analysis (12.5 points)
    - Sem 2: MAST10016 Mathematics for Biomedicine (12.5 points)
  
  **For Bioengineering Systems Major**
  - If you received a study score of at least 29 in VCE Specialist Mathematics or equivalent:
    - Sem 1: MAST10006 Calculus 2 (12.5 points)
    - Sem 2: MAST10007 Linear Algebra (12.5 points)
  - If you received a study score of at least 38 in VCE Specialist Mathematics or equivalent:
    - Sem 1: MAST10008 Accelerated Mathematics 1 (12.5 points)
    - Sem 2: MAST10009 Accelerated Mathematics 2 (12.5 points)

  **NOTE:** Accelerated Mathematics 1 and Accelerated Mathematics 2 are challenging subjects and are optional for students who have achieved over 38 in VCE Specialist Maths or equivalent.

Level 2 (62.5 points)

- Two core subjects (50 points)
  - BIOM20001 Molecular and Cellular Biomedicine (25 points)
  - BIOM20002 Human Structure and Function (25 points)

- One level 2 selective subject (12.5 points)

Level 3 (75 points)

- Two core subjects (25 points)
  - BIOM30002 Biomedicine: Molecule to Malady (12.5 points)
  - BIOM30001 Frontiers in Biomedicine (12.5 points)

- Four level 3 major subjects (50 points)

Remaining points (87.5 points)

- 12.5 points of selective subject at level 1, 2 or 3
- 50 points of breadth, including at least 12.5 points at level 2 or 3
- 25 points of breadth OR selective subjects at level 1, 2 or 3

**Total**
- No more than a total of 125 points taken at level 1
- **Course progression rule:** Completion of at least four subjects (50 points) at each year level before being able to progress to the next year level

Majors

Your major is the study area that you’ll focus on throughout your degree. Biomedicine offers 15 majors across a range of disciplines:

- Biochemistry and Molecular Biology
- Bioengineering Systems
- Biotechnology
- Cell and Developmental Biology
- Genetics
- Human Nutrition
- Human Structure and Function
- Immunology
- Infection and Immunity
- Microbiology
- Neuroscience
- Pathology
- Pharmacology
- Physiology
- Psychology

^ NOTE: Students intending on completing a major in Bioengineering Systems or Psychology will need to commence the pathway in their first semester to complete the required prerequisite sequence within their course.

For more information: go.unimelb.edu.au/o456

**UNDECIDED?**

If you are undecided about your major, you can start with the subjects that you are interested in and work forwards; what later level subjects and majors do these subjects lead to?

For most majors, you don't need to decide in Year 1, but understanding where your subjects can lead is important as you proceed through your course.

For more information:
Learn more about the specific requirements of your course by referring to the University Handbook – handbook.unimelb.edu.au
Look at the Bachelor of Biomedicine website – go.unimelb.edu.au/o456
Use the blank course structure below as a guide to plan your course. It is easiest to plan your course while referring to your course-specific requirements and the University Handbook.

You do not have to plan your whole degree at this point but the subjects that you choose in Year 1 can impact on your choices in Year 2 and 3.

Remember to consult the University Handbook to find out more about course requirements and subject availability, as well as breadth and elective options: handbook.unimelb.edu.au

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**WHAT DO I DO NEXT? ENROL IN YOUR SUBJECTS (STUDY PLAN)**

Once you have mapped your subjects you can add them to your Study Plan via my.unimelb for the current year only.

For information about enrolling in subjects visit: students.unimelb.edu.au/subject-enrolment

*Please note: You normally have until the end of the second week of classes to change your subject selection for the semester.*
ENRICH YOUR STUDIES

HOW CAN STOP 1 HELP?

Stop 1 can connect you with the full range of student services to support your success while studying at the University including:

• administration
• course planning and enrolment
• health and wellbeing
• housing and financial aid
• equity and disability support
• careers and employability development
• academic skills and learning support
• overseas study

Remember, our support services are not just for when things go wrong but also to extend and develop your skills and experience.

Overseas study
Participate in an overseas study program and gain experience as well as credit towards your course.

Concurrent diploma
Complete an additional qualification in computing, music, mathematical sciences or languages alongside your bachelors degree.

Enhance employability skills
Check your faculty’s website for internships, work placements, research or volunteering options to put your knowledge and skills into practice.

There are other opportunities such as industry events, public lectures and professional skills workshops. You can also volunteer in your community, meet with an alumni mentor or join a student club.

ACHIEVE YOUR ACADEMIC GOALS

Academic and communication skills
Find resources and programs to help you develop the reading, writing and listening skills needed to succeed in your studies.

Take the Diagnostic English Language Test (DELA) to get personalised results and recommendations to develop your ability to communicate ideas clearly and fluently using academic English language.

International student visa holders: please note you must be enrolled in 50 credit points in each half-year period unless you have approval to reduce your study load.

Notes: