Overview

The stream is designed for students who are completing the Masters of Biomedical Engineering program as part of a dual-award program with a Bachelor of Engineering (Honours) in the following specialisations only:

- Bioinformatics Engineering
- Chemical Engineering
- Computer Engineering
- Electrical Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Software Engineering
- Telecommunications

Students are required to complete 72 units of credit, 48 of which must be at postgraduate level and a minimum of 48 units must be from the courses listed below. Examples of some suggested program schedules can be viewed at the GSBmE website.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Engineering</th>
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<tr>
<td><strong>School</strong></td>
<td>Graduate School of Biomedical Engineering</td>
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<tr>
<td><strong>Study Level</strong></td>
<td>Postgraduate</td>
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<tr>
<td><strong>Minimum Units of Credit</strong></td>
<td>72</td>
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<td><strong>Specialisation Type</strong></td>
<td>Specialisation</td>
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Available in Program(s)

Program(s) in which this specialisation is available

Bachelor of Engineering (Honours) - BE (Hons)
Master of Biomedical Engineering - MBiomedE
**3133 Materials Science and Engineering (Honours) / Biomedical Engineering**
Faculty: Faculty of Science
Campus: Kensington
Units of Credit: 240
Typical Duration: 5 Years

Bachelor of Engineering (Honours) - BE (Hons)
Master of Biomedical Engineering - MBiomedE
**3768 Engineering (Honours)/Biomedical Engineering**
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 240
Typical Duration: 5 Years

Master of Biomedical Engineering - MBiomedE
**8660 Biomedical Engineering**
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 72
Typical Duration: 1.7 Years
**Specialisation Structure**

Students must complete 72 UOC.

**Core Courses**

Students must take 18 UOC of the following courses.

- **BIOM9410**  6 UOC  
  Regulatory Requirements of Biomedical Technology

- **BIOM9420**  6 UOC  
  Clinical Laboratory Science

- **PHSL2121**  6 UOC  
  Principles of Physiology A

**Project**

Students must take 12 UOC of the following Biomedical Engineering Thesis courses in place of the thesis courses offered in their BE (Hons) specialisation.

NOTE: Students must contact School for consent to enrol in BIOM9914. BIOM9914 is only available to high achieving students with prior written School approval.

- **BIOM4951**  4 UOC  
  Research Thesis A

- **BIOM4952**  4 UOC  
  Research Thesis B

- **BIOM4953**  4 UOC  
  Research Thesis C

- **BIOM9914**  12 UOC  
  Masters Project

**Biomedical Engineering Courses**
Students must take at least 36 UOC, up to a maximum of 42 UOC of the following courses.

BIOM9027 | 6 UOC
Medical Imaging

BIOM9311 | 6 UOC
Mass Transfer in Medicine

BIOM9332 | 6 UOC
Biocompatibility

BIOM9333 | 6 UOC
Cellular and Tissue Engineering

BIOM9450 | 6 UOC
Biomedical and Health Informatics

BIOM9541 | 6 UOC
Mechanics of the Human Body

BIOM9551 | 6 UOC
Biomechanics of Physical Rehabilitation

BIOM9561 | 6 UOC
Mechanical Properties of Biomaterials

BIOM9621 | 6 UOC
Biological Signal Analysis

BIOM9640 | 6 UOC
Biomedical instrumentation

BIOM9650 | 6 UOC
Biosensors and Transducers
**Required Specialisation Course**

Students in the Mechanical or Mechatronic Engineering specialisations or the Material Science and Engineering (Honours)/Biomedical Engineering program are required to complete the following Anatomy course. Students in the Chemical Engineering specialisation are required to complete the following Mass Transfer course.

**ANAT2511 | 6 UOC**
Fundamentals of Anatomy

**BIOM9311 | 6 UOC**
Mass Transfer in Medicine

**Additional electives**

- BIOM1010 Engineering in Medicine and Biology is a recommended first year elective for students in this program.
- Students may take PHSV2221 Principles of Physiology 1B on completion of PHSV2121 Principles of Physiology 1A.

**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

Entry requirements

See Domestic Entry Requirements Future Students
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions