

# FACULTY OF SCIENCE

## STRATHCLYDE INSTITUTE OF PHARMACY AND BIOMEDICAL SCIENCES

### BIOMEDICAL SCIENCES

Master of Science in Biochemistry  
Master of Science in Immunology  
Master of Science in Microbiology  
Master of Science in Pharmacology

*These regulations are to be read in conjunction with [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)*

#### Curriculum (Full-time study)

1. All students shall undertake an approved curriculum as follows:

#### First Year

All full-time students shall undertake modules amounting to 120 credits as follows:

#### Compulsory Modules

| Module Code | Module Title  | Level | Credits |
|-------------|---|-------|---------|
| BM110       | Being a Biomolecular Scientist 1                            | 1     | 40      |
| BM109       | Foundation Biomolecular Sciences: Cells and their Molecules | 1     | 20      |
| CH112       | Bio-Organic Chemistry                                       | 1     | 20      |
| BM108       | Foundation Biomolecular Science 2: Organisms and Disease    | 1     | 20      |
|             | Elective Modules  |       | 20      |

#### Second Year

All full-time students shall undertake modules amounting to 120 credits as follows:

#### Compulsory Modules

| Module Code | Module Title                     | Level | Credits |
|-------------|----------------------------------|-------|---------|
| BM214       | Being a Biomolecular Scientist 2 | 2     | 40      |
| BM212       | Introduction to Immunology       | 2     | 20      |
| BM210       | Introduction to Biochemistry     | 2     | 20      |
| BM213       | Introduction to Pharmacology     | 2     | 20      |
| BM211       | Introduction to Microbiology     | 2     | 20      |

### **Third Year**

All full-time students shall undertake modules amounting to 120 credits as follows:

#### **Compulsory Module**

| <b>Module Code</b> | <b>Module Title</b>              | <b>Level</b> | <b>Credits</b> |
|--------------------|----------------------------------|--------------|----------------|
| BM327              | Being a Biomolecular Scientist 3 | 3            | 40             |

#### **Optional Modules**

| <b>Module Code</b> | <b>Module Title</b>  | <b>Level</b> | <b>Credits</b> |
|--------------------|--|--------------|----------------|
| BM326              | Fundamental Biochemistry*  | 3            | 20             |
| BM321              | Biomedical Biochemistry*   | 3            | 20             |
| BM325              | Fundamental Immunology**   | 3            | 20             |
| BM323              | Biomedical Immunology**  | 3            | 20             |
| BM330              | Fundamental Microbiology***  | 3            | 20             |
| BM329              | Biomedical Microbiology***   | 3            | 20             |
| BM324              | Fundamental Pharmacology****   | 3            | 20             |
| BM322              | Biomedical Pharmacology****  | 3            | 20             |
| BM328              | Fundamental Biomedical Science:<br>Haematology and Immunodiagnostics | 3            | 20             |

\*Compulsory for Biochemistry

\*\*Compulsory for Immunology

\*\*\*Compulsory for Microbiology

\*\*\*\*Compulsory for Pharmacology

Students must pass the optional modules before they can take the related Clinical/Advanced modules in fourth year.

### **Fourth Year**

Students must take a minimum of 40 credits in the subject that forms the named Masters degree in year 5. All full-time students shall undertake modules amounting to 120 credits choosing two subject combinations from the following:

#### **Compulsory Modules**

| <b>Module Code</b> | <b>Module Title</b>              | <b>Level</b> | <b>Credits</b> |
|--------------------|----------------------------------|--------------|----------------|
| BM432              | Being a Biomolecular Scientist 4 | 4            | 40             |

## Optional Modules

| Module Code | Module Title  | Level | Credits |
|-------------|---|-------|---------|
| BM430       | Advanced Biochemistry*  | 4     | 20      |
| BM423       | Clinical Biochemistry   | 4     | 20      |
| BM426       | Clinical Immunology**   | 4     | 20      |
| BM427       | Advanced Immunology   | 4     | 20      |
| BM425       | Advanced Microbiology***                                      | 4     | 20      |
| BM424       | Clinical Microbiology^  | 4     | 20      |
| BM435       | Applied Microbiology^   | 4     | 20      |
| BM429       | Advanced Pharmacology****                                     | 4     | 20      |
| BM434       | Clinical Pharmacology   | 4     | 20      |
| BM422       | Advanced Biomedical Science: Cellular and Molecular Pathology | 4     | 20      |

^Either BM424 Clinical Microbiology or BM435 Applied Microbiology

Not all optional modules on this list will be available in each academic year. Please check your programme handbook for confirmation of which optional modules will run

\*Compulsory for Biochemistry

\*\*Compulsory for Immunology

\*\*\*Compulsory for Microbiology

\*\*\*\*Compulsory for Pharmacology

## **Fifth Year**

All students shall undertake modules amounting to 120 credits as follows:

### Compulsory Module

| Module Code | Module Title             | Level | Credits |
|-------------|--------------------------|-------|---------|
| BM503       | MSci in Biochemistry*    | 5     | 120     |
| BM502       | MSci in Immunology**     | 5     | 120     |
| BM504       | MSci in Microbiology***  | 5     | 120     |
| BM501       | MSci in Pharmacology**** | 5     | 120     |

\*Compulsory for Biochemistry

\*\*Compulsory for Immunology

\*\*\*Compulsory for Microbiology

\*\*\*\*Compulsory for Pharmacology

Each of the above 120 credit modules comprises of modules appropriate to the chosen programme.

| Module Code | Module Title  | Level | Credits |
|-------------|---|-------|---------|
|             | MSci (programme) Project and Thesis                     | 5     | 80      |
|             | Research Topics in (programme)                          | 5     | 20      |
| BM952       | Essential Skills and Employability for Masters Students | 5     | 20      |

On successful completion of the fifth year of the programme, a candidate will be awarded 120 Level 5 credits under the module code BM501, BM502, BM503 or BM504 as appropriate.

### Curriculum (Part-time study)

- See [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)

### Progress (Full-time study)

- In order to progress to the second year of the programme, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)
- In order to progress to the third year of the programme, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)
- In order to progress to the fourth year of the programme, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)
- In order to progress to the fifth year of the programme, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)

### Progress (Part-time study)

- In order to progress to the next full-time equivalent year of the programme, a part-time student must normally satisfy the appropriate progress requirements for full-time study.
- In any one academic year, a part-time student shall not normally carry more than 20 outstanding credits from one academic year to the next.

### Final Assessment and Degree Classification

- The final classification will normally be based on the first assessed attempt at compulsory and specified optional modules in the third, fourth and fifth years.

### Award

- MSci:** In order to qualify for the award of the degree of MSci in the chosen programme, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)

### Transfer

- A student who fails to satisfy the progress or award requirements for the degree of MSci may be transferred to the degree of BSc with Honours, BSc, Diploma of Higher Education or Certificate of Higher Education.

12. **BSc with Honours:** In order to qualify for the award of the degree of BSc with Honours in the chosen programme, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)
13. **BSc:** In order to qualify for the award of the BSc in Biological Sciences, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)
14. **Diploma of Higher Education:** In order to qualify for the award of a Diploma of Higher Education in Biological Sciences, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)
15. **Certificate of Higher Education:** In order to qualify for the award of a Certificate of Higher Education in Biological Sciences, see [General Academic Regulations – Undergraduate, Integrated Master and Professional Graduate Degree Programme Level.](#)