

MOLECULAR MEDICINE (MSc/PgDip/PgCert)

57C4B9B1/61C4B9VX/62C4B9VZ

Duration: 12 months full time (MSc)

Content:

Candidates shall be required to attend the following designated programme of courses:

FULL TIME ROUTE

Stage 1

MT5010 Basic Skills – Induction (0 credit points)

Two or three of:

MB5021 Bioinformatics (15 credit points)
BT5014 Biotechnology (15 credit points)
MB5025 Molecular genetics (15 credit points)

Plus one or two from the following (for a total of 60 credits at Stage 1):

MB5028 Profiles of Immunology (15 credit points)
MC5008 Introduction to Microbiology (15 credit points)
MT5024 Molecular Pharmacology (15 credit points)
PU5017 Applied Statistics (15 credit points)

Stage 2

MB5518 Research Tutorials (15 credit points)

Plus three from the following:

MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points)
BT5510 Advanced Biotechnology (15 credit points)
MB5516 Host-Pathogens Interactions (15 credit points)
MB5517 Genome – Enabled Medicine (15 credit points)
MB5523 Human Genetics (15 credit points)
MB5526 Genes and Immunity (15 credit points)
MT5520 Drug Development to Evidence-Based Medicine (15 credit points)
BT5509 Biologic drug discovery (15 credit points)

Please note: the following courses cannot be taken together due to timetabling constraints -> MB5522 and MB5526

MB5021 is a pre-requisite for MB5522
BT5014 is a pre-requisite for BT5510

Stage 3

All students must take **one** of the following:

MB5904 Masters Research Project (Laboratory) (60 credit points)
OR
PU5922 Masters Research Project (60 credit points)

Assessment: By practical work, by written essays and by oral presentations, or by a combination of these, as prescribed for each course. The project will be assessed on the basis of performance, written thesis, and oral presentation. There will usually be an oral examination to complete the programme. Candidates must pass all courses at an appropriate standard for the award of the MSc degree.

PART TIME ROUTE

Year 1

Stage 1

Two of the following:

- MB5021 Bioinformatics (15 credit points)
- BT5014 Biotechnology (15 credit points)
- MB5025 Molecular Genetics (15 credit points)

Stage 2

Two of the following:

- MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points)
- BT5510 Advanced Biotechnology (15 credit points)
- MB5516 Host-Pathogens Interactions (15 credit points)
- MB5517 Genome – Enabled Medicine (15 credit points)
- MB5523 Human Genetics (15 credit points)
- MB5526 Genes and Immunity (15 credit points)
- MT5520 Drug Development to Evidence-Based Medicine (15 credit points)
- BT5509 Biologic drug discovery (15 credit points)

Year 2

Stage 1

MT5010 Basic Skills – Induction (0 credit points)

Plus two of the following (not already chosen in year 1):

- MB5021 Bioinformatics (15 credit points)
- BT5014 Biotechnology (15 credit points)
- MB5025 Molecular Genetics (15 credit points)
- MB5028 Profiles of Immunology (15 credit points)
- MC5008 Introduction to Microbiology (15 credit points)
- MT5024 Molecular Pharmacology (15 credit points)
- PU5017 Applied Statistics (15 credit points)

Stage 2

MB5518 Research Tutorials (15 credit points)

Plus one of the following (not already chosen in year 1):

- MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points)
- BT5510 Advanced Biotechnology (15 credit points)
- MB5516 Host-Pathogens Interactions (15 credit points)
- MB5517 Genome – Enabled Medicine (15 credit points)
- MB5523 Human Genetics (15 credit points)
- MB5526 Genes and Immunity (15 credit points)
- MT5520 Drug Development to Evidence-Based Medicine (15 credit points)
- BT5509 Biologic drug discovery (15 credit points)

Please note: the following courses cannot be taken together due to timetabling constraints -> MB5522 and MB5526

MB5021 is a pre-requisite for MB5522

BT5014 is a pre-requisite for BT5510

MB5518 and MB5903 are normally taken in year 2, but may be taken in year 1 instead.

Stage 3

All students must take **one** of the following:

MB5904 Masters Research Project (Laboratory) (60 credit points)

OR

PU5922 Masters Research Project

Assessment: By practical work, by written essays and by oral presentations, or by a combination of these, as prescribed for each course. The project will be assessed on the basis of performance, written thesis, and oral presentation. There will usually be an oral examination to complete the programme. Candidates must pass all courses at an appropriate standard for the award of the MSc degree.