BIOTECHNOLOGY AND BIOINFORMATICS (MSc/PgDip/PgCert)

57J71SB1/ 61J710VX/ 62J710VZ

Duration: 12 months full time or 24 months part-time (MSc)

Content: The programme of taught courses will comprise lectures, tutorials, practical classes and small group demonstrations in laboratories. The curriculum will be selected by the student in consultation with the programme co-ordinator with courses chosen from any of the current taught MSc courses offered by the School of Medical Sciences or the School of Medicine and Dentistry.

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

FULL TIME ROUTE

Stage 1

PD5006 Getting Started at the University of Aberdeen (0 credit points)
MT5010 Basic Skills Induction (0 credit points)
MB5021 Bioinformatics (15 credit points)
BT5014 Biotechnology (15 credit points)

Plus two from the following list:

BT5013 Small Molecule Drug Discovery (15 credit points)
BT5016 Introduction to Commercialisation and Bio-Business (15 credit points)
MB5025 Molecular Genetics (15 credit points)
MC5009 Current Microbiology (15 credit points)
PU5017 Applied Statistics (15 credit points)

Stage 2

BT5511 Advanced Biotechnology with Computation (15 credit points)
MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points)

Plus two from the following list:

BT5508 Advanced Bio-Business and the Commercialisation of Bioscience Research (15 credit points)
BT5509 Biologic Drug Discovery (15 credit points)
MB5528 Advanced Genomic Tools in Biomedical Research (15 credit points)

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)

PART TIME ROUTE

Year 1
Stage 1

PD5006 Getting Started at the University of Aberdeen (0 credit points)
MT5010 Basic Skills Induction (0 credit points)

MB5021 Bioinformatics (15 credit points)
OR
BT5014 Biotechnology (15 credit points)

Plus ONE from the following list:
BT5016 Introduction to Commercialisation and Bio-Business
BT5013 Small Molecule Drug Discovery (15 credit points)
MB5025 Molecular Genetics (15 credit points)
MC5009 Current Microbiology (15 credit points)PU5017 Applied Statistics (15 credit points)

Stage 2

MB5522   Advanced Bioinformatics and Genome Sequencing (15 credit points)
OR
BT5511   Advanced Biotechnology with Computation (15 credit points) (depending on course chosen in first half session)

Plus ONE from the following list:

BT5508 Advanced Bio-Business and the Commercialisation of Bioscience Research (15 credit points)
BT5509 Biologic Drug Discovery (15 credit points)
MB5528 Advanced Genomic Tools in Biomedical Research (15 credit points)

Year 2
Stage 1

All students must take the following:

BT5014 Biotechnology (15 credit points) or MB5021 Bioinformatics (15 credit points) (depends on course taken in first year)

Plus one from the following list:

BT5013 Small Molecule Drug Discovery (15 credit points)
BT5016 Introduction to Commercialisation and Bio-Business (15 credit points)
MB5025 Molecular Genetics (15 credit points)
MC5009 Current Microbiology (15 credit points)
PU5017 Applied Statistics (15 credit points)

Stage 2

BT5511 Advanced Biotechnology with Computation (15 credit points) *OR*
MB5522 Advanced Bioinformatics and Genome Sequencing (15 credit points) (depending on course chosen in first half session)

Plus one from the following list:

BT5508 Advanced Bio-Business and the Commercialisation of Bioscience Research (15 credit points)
BT5509 Biologic Drug Discovery (15 credit points)
MB5528 Advanced Genomic Tools in Biomedical Research (15 credit points)

Stage 3

MB5904 Masters Laboratory Research Project (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 or placement will be assessed on the basis of performance, written thesis or report, and oral presentation (project only) or reflective analysis (placement only). Candidates must pass all courses at an appropriate standard for the award of the MSc degree.