POSTGRADUATE DIPLOMA IN BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

Programme Requirements

Code	Title	Credits
STREAM FOR BIOLOGICAL SCIENCE GRADUATES		

Students take **60** credits as follows - all listed core modules (**55** credits) and **5** credits of elective modules:

Biological Science Taught Modules

Core Modules

Code	Title	Credits
CS6405	Datamining	5
CS6501	Programming for Bioscientists I	5
CS6502	Programming for Bioscientists II	5
MB6300	Computational Systems Biology	5
MB6301	Genomic Data Analysis	5
MB6302	Computational Microbiome Analysis	5
ST3300	Data Analysis I	5
ST4400	Data Analysis II	5
ST5005	Introduction to Probability and Statistics	5

Elective Modules

Students take **5** credits from the following:

Code	Title	Credits
CS6421	Deep Learning	5
AM6020	Open Source Infrastructure for Modelling with Data	5
AM6016	Dynamic Machine Learning with Applications	5
MS6005	Discrete Mathematics	5
CS6503	Introduction to Relational Databases	5

STREAM FOR COMPUTER SCIENCE GRADUATES

Students take **60** credits as follows - all listed core modules (**55** credits) and **5** credits of elective modules:

Computer Science Taught Modules

Core Modules

Code	Title	Credits
ST5005	Introduction to Probability and Statistics	5
BC6002	Molecular Biology	5
BC6003	Biomolecules	5
BL6023	Cells, Biomolecules, Genetics and Evolution	5
CS6405	Datamining	5
CS6502	Programming for Bioscientists II	5
MB6300	Computational Systems Biology	5
MB6301	Genomic Data Analysis	5
MB6302	Computational Microbiome Analysis	5
ST3300	Data Analysis I	5
ST4400	Data Analysis II	5

Elective Modules

Code	Title	Credits
MS6005	Discrete Mathematics	5
CS6501	Programming for Bioscientists I	5

STREAM FOR MATHEMATICS GRADUATES

Students take **60** credits as follows - all listed core modules (**55** credits) and **5** credits of elective modules:

Mathematics Taught Modules

Core Modules

Code	Title	Credits
ST3300	Data Analysis I	5
or ST4400	Data Analysis II	
AM6016	Dynamic Machine Learning with Applications	5
BC6002	Molecular Biology	5
BC6003	Biomolecules	5
BL6023	Cells, Biomolecules, Genetics and Evolution	5
AM6020	Open Source Infrastructure for Modelling with Data	5
CS6405	Datamining	5
CS6502	Programming for Bioscientists II	5
MB6300	Computational Systems Biology	5
MB6301	Genomic Data Analysis	5
MB6302	Computational Microbiome Analysis	5

Elective Modules

Students take **5** credits from the following:

Code	Title	Credits
CS6503	Introduction to Relational Databases	
CS6501	Programming for Bioscientists I	

STREAM FOR STATISTICS GRADUATES

Students take **60** credits as follows - all listed core modules (**55** credits) and **5** credits of elective modules:

Statistics Taught Modules

Core Modules

Code	Title	Credits
AM6016	Dynamic Machine Learning with Applications	5
BC6002	Molecular Biology	5
BC6003	Biomolecules	5
BL6023	Cells, Biomolecules, Genetics and Evolution	5
AM6020	Open Source Infrastructure for Modelling with Data	5
CS6405	Datamining	5
CS6502	Programming for Bioscientists II	5
MB6300	Computational Systems Biology	5
MB6301	Genomic Data Analysis	5
MB6302	Computational Microbiome Analysis	5
MS6005	Discrete Mathematics	5

Elective Modules

Students take modules to the value of **5** credits from the following:

Code	Title	Credits
CS6503	Introduction to Relational Databases	5
CS6501	Programming for Bioscientists I	5

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.