

POSTGRADUATE DIPLOMA IN BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

CS6501	Programming for Bioscientists I
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Total Credits	60
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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*.

Overview

Exit Award only

Students on the MSc (Bioinformatics and Computational Biology) (<https://ucc-ie-public.courseleaf.com/programmes/mscscbc/>) programme who do not reach the average mark of 50% threshold required to progress to the research dissertation will be conferred with a Postgraduate Diploma in Bioinformatics and Computational Biology.

Similarly, students who pass the taught modules and do not wish to complete the research dissertation, may opt to be conferred with a Postgraduate Diploma in Bioinformatics and Computational Biology.

Programme Requirements

Stream for Biological Science Graduates

Code	Title	Credits
#mscscbc:Biological Science Taught Modules		
Total Credits		0

Stream for Computer Science Graduates

Code	Title	Credits
#mscscbc:Computer Science Taught Modules		
Total Credits		0

Stream for Mathematics Graduates

Code	Title	Credits
#mscscbc:Mathematics Taught Modules		
Total Credits		0

Stream for Statistics Graduates

Code	Title	Credits
<i>Core Modules</i>		
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 and Big 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
<i>Elective Modules</i>		
Students take modules to the value of 5 credits from the following:		5
CS6503	Introduction to Relational Databases	