MATHEMATICAL SCIENCES - CK407

Programme Requirements

First Science Area of Study

Code	Title	Credits
Year 1		
Students take **60** credits as follows – all listed core modules (**40** credits) and **20** credits of elective modules:		
Core Modules		
AM1052	Introduction to Mechanics	5
AM1053	Introduction to Mathematical Modelling	5
AM1054	Mathematical Software	5
MA1057	Introduction to Abstract Algebra	5
MA1058	Introduction to Linear Algebra	5
MA1059	Calculus	5
MA1060	Introduction to Analysis	5
ST1051	Introduction to Probability and Statistics	5
Elective Modules		
Students take modules to the value of **20** credits from the following (subject to corequisites):		20
AC1107	Investment in Capital Assets (5)	
AC1108	Introduction to Valuation and Risk (5)	
BL1006	Habitats and Ecosystems (5)	
CM1006	Introduction to Chemistry for Physicists and Mathematicians (10)	
CS1061	Programming in C (5)	
CS1069	Network and Internet Technologies (5)	
MS2013	Geometry (5)	
PA1003	Principles of Market Analysis (10)	
PY1052	Introductory Physics I (10)	
PY1053	Introductory Physics II (10)	
ST1050	Statistical Programming in R (5)	
Year 2		
Select one of the following outlets:		
BSc Single Honours		
Financial Mathematics and Actuarial Science (https://ucc-ie-public.courseleaf.com/programmes/bscmfm/)		
Mathematical Sciences (https://ucc-ie-public.courseleaf.com/programmes/bscmsh/)		
BSc Joint Honours		
Mathematical Sciences and Physics (https://ucc-ie-public.courseleaf.com/programmes/bscpj/)		

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For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).