

BSC (HONS) (RISK AND ACTUARIAL STUDIES)

Programme Requirements

Code	Title	Credits
Year 1		
Students take modules to the value of 60 credits (or ECTS equivalent) as follows:		
<i>Core Modules</i>		
FLG1C4G001	Comprehensive English Listening and Speaking 1	5
FLG1C6G002	Comprehensive English Reading and Writing 1	8
FLG1C4G003	Comprehensive English Listening and Speaking 2	5
FLG1C6G004	Comprehensive English Reading and Writing 2	8
PAE1B1Q001	Basic Physical Quality Training	2
PAE1B1G001	Physical Education 1	2
MAR1B3G001	Ethic & Law	4
STU1B1Q002	Military Training	2
SCI1C4B001	Mathematical Analysis 1	6
SCI1C4B002	Mathematical Analysis 2	6
SCI1C4B004	Advanced Algebra and Space Analytic Geometry 1	6
SCI1C4B005	Advanced Algebra and Space Analytic Geometry 2	6
Year 2		
Students take modules to the value of 60 credits (or ECTS equivalent) as follows:		
<i>Core Modules</i>		
FLG1C6G005	Comprehensive English 3	8
FLG1C6G006	Comprehensive English 4	8
CIE6C3S001	Algorithms and Data Structure	6
PAE1B1G002	Physical Education 2	2
PAE1B1G003	Physical Education 3	2
SCI1C4B003	Mathematical Analysis 3	8
SCI1C4B006	Probability	5
SCI1C3D001	Mathematical Statistics	3
SCI1C3S001	Discrete Mathematics	6
SCI1C3B007	Differential Equations	6
SCI1C4S002	Mathematical Modelling and Experiment Year 2	6
Year 3		
Students take 60 credits as follows:		
MF2052	Introduction to Financial Mathematics	10
PA3002	Principles and Applications of Market Analysis	10
ST1050	Statistical Programming in R	5
ST3054	Survival Analysis	5
ST3055	Generalised Linear Models	5
ST3072	Probability and Mathematical Statistics	10
ST3074	Statistical Methods for Non-Life Insurance	5
ST3092	Statistics Readings and Literature Review Workshop	5
ST4400	Data Analysis II	5
Year 4		
Students take 60 credits as follows – all listed core modules (25 credits) and 35 credits of elective modules:		

Core Modules

ST3053	Stochastic Modelling I	5
ST4060	Statistical Methods for Machine Learning I	5
ST4061	Statistical Methods for Machine Learning II	5
ST4064	Time Series	5
ST4090	Current Topics in Statistics I	5

Elective Modules

Students take modules to the value of 35 credits from the following:		35
AM2060	Object Oriented Programming with Applications (5)	
AM2061	Computer Modelling and Numerical Techniques (5)	
MF2050	Discrete Time Financial Models (5)	
MF2053	Financial Modelling for Actuarial Science 1 (5)	
MF3052	Derivatives, Securities and Option Pricing (5)	
MF3053	Financial Modelling for Actuarial Science 2 (5)	
ST3061	Statistical Theory of Estimation (5)	
ST3075	Methods of Reporting in Actuarial Science (5)	
ST4068	Contingencies (10)	
ST4401	Introduction to Operations Research (5)	
ST4402	Modelling and Systems for Decision Making (5)	

Total Credits **240**

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*.