Southampton

Addendum to the Programme Specification

4709 BSc Mathematics with Statistics

This Addendum has been produced to highlight the key changes made to the existing Programme Specification as a result of the University's response to the Covid-19 Pandemic. You should read it in conjunction with the relevant Programme Specification from the year you started your programme.

Programme Specification for entry in 2020-21 Programme Specification for entry in 2019-20 Programme Specification for entry in 2018-19

University level information

In view of COVID-19, the University has had to make changes to some elements of programme delivery for 2020-21. These changes have included the method of delivery, such as face-to-face and online, and the number of modules available.

The University aims to provide as much of a face-to-face component to your education as prevailing conditions at the time allow, combined with its new blended approach that will develop active independent and group online learning.

As the COVID-19 pandemic develops, the University's response to this and other issues may likewise need to evolve. The University will consult with student representatives as necessary and appropriate and will communicate changes to you as soon as practicable so that you have the information you need to understand how a change may impact you and what steps you need to take next. The University remains committed to supporting you as you learn.

Programme Information

In light of Covid-19, teaching and learning methods may be adapted. Lectures, seminars, tutorials, and consultation with academic staff may be delivered online or in person as the prevailing conditions allow. Group sizes for tutorials and seminars may be adjusted. Assessment methods may also be adapted. For example, in-class test may be replaced by assignments, weightings of assessments may change, exams may be replaced by coursework or take-home assignments and group presentations and projects may take place online or be adapted to allow for social distancing guidelines.

Programme Structure

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note that, in some instances, modules have limited spaces available.

Part 1

Semester 1				Semester 2				
Modules	ECTS	CATS	Module type	Modules	ECTS	CATS	Module Type	

MATH1048 Linear Algebra I	7.5	15	Core	1						
MATH1059 Calculus	7.5	15	Core							
MATH1039 Calculus AMATH1046 First Year Mathematics Workshop						0	Comp			
MATH1053 TT Personal Tutor meeting							Comp			
MATH1024 Introduction to 7.5 15 Comp MATH1049 Linear Algebra II						0 15	Comp			
				MATH1058 Operational Research I and Mathematical Computing	7.5	15	Comp			
				MATH1060 Multivariable Calculus	7.5	15	Comp			
Select 2 modules from the following:- Students may select either ECON1001 or ECON1003 (Not Both). If you have NOT passed Economics at A Level, or an equivalent level, you may select ECON 1001 only, if you HAVE passed Economics at A Level you may select ECON 1003 only.										
FREEXX15 Part 1 Elective	7.5	15	Option	FREEXX15 Part 1 Elective	7.5	15	Option			
LANGXX15 Language Module	7.5	15	Option	LANGXX15 Language Module	7.5	15	Option			
LANGXX30 Language Module	7.5	15	Option	LANGXX30 Language Module	7.5	15	Option			
ECON1001 Foundations of Microeconomics	7.5	15	Option	DEMO1001 Introduction to Demographic Methods	7.5	15	Option			
ECON1003 Principles of Microeconomics	7.5	15	Option	ECON1002 Principles of Macroeconomics	7.5	15	Option			
MATH1001 Number Theory	7.5	15	Option	MATH1057 Dynamics and Relativity	7.5	15	Option			

Part 2

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Semester 1	Semester 2								
Modules	ECTS	CATS	Module type	Modules	ECTS	CATS	Module Type		
MATH2011 Statistical Distribution Theory	7.5	15	Comp	MATH2010 Statistical Modelling I	7.5	15	Comp		
MATH2039 Analysis	7.5	15	Comp	MATH2012 Stochastic Processes	7.5	15	Comp		
				MATH2038 Partial Differential Equations	7.5	15	Comp		
Select 3 modules (22.5 ECTS/45 CATS) from the following:-									
Modules often taken as part of the programme are MATH2013, MATH2040 and MATH2014.									
Please do NOT select modules you have taken previously.									
If you do, you will b	e conta	cted by	your Stud	ent Office and asked to amend your choices	5.				
Please also ensure that you sele	ct an ev	en split	of credits	overall by Semester including your compute	sory mo	dules.			
FREEXY15 Part 2 Elective	7.5	15	Option	CRIM1004 Criminal Justice Studies	7.5	15	Option		
LANGXX15 Language Module	7.5	15	Option	MATH2014 Algorithms	7.5	15	Option		
MATH2003 Group Theory	7.5	15	Option	MATH2044 Fields and Fluids	7.5	15	Option		
MATH2013 Introduction to Operational Research	7.5	15	Option	MATH2049 Geometry and Topology	7.5	15	Option		
MATH2040 Financial Mathematics	7.5	15	Option	SOES1009 The Living Earth	7.5	15	Option		
				FREEXY15 Part 2 Elective	7.5	15	Option		
				LANGXX15 Language Module	7.5	15	Option		

Part 3

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Semester 1				Semester 2					
Modules	ECTS	CATS	Module type	Modules	ECTS	CATS	Module Type		
MATH3044 Statistical Inference	7.5	15	Comp	MATH3091 Statistical Modelling II	7.5	15	Comp		
				MATH3014 Design and Analysis of Experiments	7.5	15	Comp		
MATH3092 Mathematics Project						30	Comp		
Select 3 modules (22.5ECTS-35 CATS) from the following:- Please ensure that you select an even split of credits overall by Semester including your compulsory modules. If you do not, you will be contacted by your Student Office and asked to amend your choices. If you have already taken MATH2046 Algebra and Geometry you may not select MATH2049 Geometry and Topology									

Select 0 modules (0 credits) up to a maximum of 1 module (7.5 ECTS/15 CATS) from the following:									
Modules	ECTS	CATS	Module type	Modules	ECTS	CATS	Module Type		
LANGXX15 Language Module	7.5	15	Option	MATH2010 Statistical Modelling I	7.5	15	Option		
GEOG3048 Aeolian Landscapes:									
Modelling and Measuring Aeolian	7.5	15	Option		7.5	15	Option		
Systems				MATH2014 Algorithms					
MATH2003 Group Theory	7.5	15	Option	MATH2044 Fields and Fluids	7.5	15	Option		
MATH2013 Introduction to	7.5	15	Option		7.5	15	Option		
Operational Research		15	option	MATH2049 Geometry and Topology		15	option		
MATH2040 Financial Mathematics	7.5	15	Option	LANGXX15 Language Module	7.5	15	Option		
MATH2045 Vector Calculus and	7.5	15	Option						
Complex Variable	7.5	15							
UOSM2004 Global Health	7.5	15	Option						
Select 2 modules (30 credits) up to a maximum of-3 modules (22.5 ECTS/ 45 CATS) from the following:									
Modules	ECTS	CATS	Module type	Modules	ECTS	CATS	Module Type		
FREEXZ15 Part 3 Elective	7.5	15	Option	MATH3006 Relativity, Blackholes and Cosmology	7.5	15	Option		
LANGXX15 Language Module	7.5	15	Option	MATH3017 Mathematical Programming	7.5	15	Option		
LANGXX30 Language Module	15	30	Option	MATH3022 Mathematical Finance	7.5	15	Option		
MATH3016 Optimization	7.5	15	Option	MATH3052 Mathematical Biology	7.5	15	Option		
MATH3018 Numerical Methods	7.5	15	Option	MATH3066 Actuarial Mathematics II	7.5	15	Option		
MATH3033 Graph Theory	7.5	15	Option	MATH3078 Further Number Theory	7.5	15	Option		
MATH3063 Actuarial Mathematics I	7.5	15	Option	MATH3080 Algebraic Topology	7.5	15	Option		
MATH3076 Hilbert Spaces	7.5	15	Option	MATH3084 Integral Transform Methods	7.5	15	Option		
MATH3083 Advanced Partial Differential Equations	7.5	15	Option	MATH3088 Complex Analysis	7.5	15	Option		
MATH3085 Survival Models	7.5	15	Option	STAT3010 Statistical Methods in Insurance	7.5	15	Option		
MATH3086 Galois Theory	7.5	15	Option	LANGXX15 Language Module	15	30	Option		
MATH3090 Structure and Dynamics of Networks	7.5	15	Option						