Addendum to the Programme Specification

4726 BSc Mathematics with Finance

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				

MATH1059 Calculus	7.5	15	Core				
MATH1046 First Year Mathematics Workshop					0	0	Comp
MATH1053 TT Personal Tutor meeting					0	0	Comp
MATH1024 Introduction to Probability and Statistics	7.5	15	Comp	ECON1002 Principles of Macroeconomics	7.5	15	Comp
				MATH1049 Linear Algebra II	7.5	15	Comp
				MATH1058 Operational Research I and Mathematical Computing	7.5	15	Comp
				MATH1060 Multivariable Calculus	7.5	15	Comp
Option Modules: No Selection Required **You are NOT expected to select any Part 1 modules at this time. These will be added to your record by the Student Office, based on your A Level or equivalent qualifications.** **Students WITHOUT A-Level Economics will be registered on - ECON 1001 Foundations of Microeconomics** **Students WITH A-Level Economics will be registered on - ECON 1003 Principles of Microeconomics**							
ECON1001 Foundations of Microeconomics	7.5	15	Option				
ECON1003 Principles of Microeconomics	7.5	15	Option				

Part 2

Semester 1				Semester 2			
Modules	**ECTS**	**CATS**	**Module type**	**Modules**	**ECTS**	**CATS**	**Module Type**
ECON2003 Microeconomics of Markets	7.5	15	Comp	MANG2014 Accounting and Finance for Non-Specialists	7.5	15	Comp
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
MATH2040 Financial Mathematics	7.5	15	Comp	MATH2038 Partial Differential Equations	7.5	15	Comp

Part 3

Semester 1				Semester 2			
Modules	**ECTS**	**CATS**	**Module type**	**Modules**	**ECTS**	**CATS**	**Module Type**
MATH3092 Mathematics Project					15	30	Comp
ECON3015 Principles of Finance	7.5	15	Comp	MANG3009 International Banking	7.5	15	Comp
				MANG3020 Futures and Options	7.5	15	Comp
				MATH3022 Mathematical Finance	7.5	15	Comp
Option Modules: **Select 0 - 2 modules (15 ECTS/30 CATS) from the following:** **Please do NOT select modules you have taken previously**							
Modules	**ECTS**	**CATS**	**Module type**	**Modules**	**ECTS**	**CATS**	**Module Type**
MATH3016 Optimization	7.5	15	Option	MATH3006 Relativity, Blackholes and Cosmology	7.5	15	Option
MATH3018 Numerical Methods	7.5	15	Option	MATH3017 Mathematical Programming	7.5	15	Option
MATH3033 Graph Theory	7.5	15	Option	MATH3052 Mathematical Biology	7.5	15	Option
MATH3044 Statistical Inference	7.5	15	Option	MATH3066 Actuarial Mathematics II	7.5	15	Option
MATH3063 Actuarial Mathematics I	7.5	15	Option	MATH3078 Further Number Theory	7.5	15	Option
MATH3076 Hilbert Spaces	7.5	15	Option	MATH3080 Algebraic Topology	7.5	15	Option
MATH3083 Advanced Partial Differential Equations	7.5	15	Option	MATH3084 Integral Transform Methods	7.5	15	Option
MATH3085 Survival Models	7.5	15	Option	MATH3088 Complex Analysis	7.5	15	Option
MATH3086 Galois Theory	7.5	15	Option	MATH3091 Statistical Modelling II	7.5	15	Option
MATH3090 Structure and Dynamics of Networks	7.5	15	Option	MATH3014 Design and Analysis of Experiments	7.5	15	Option
Option Modules: **Select 0 modules up to a maximum of 1 module (15 credits) from the following:**							

Note: you are permitted to only `backtrack' once to take a Part 2 module. Please note you cannot take MATH2049 Geometry and Topology if you have previously taken MATH2046. **Any level NQF5 module in subject UOSM.**							
Modules	**ECTS**	**CATS**	**Module type**	**Modules**	**ECTS**	**CATS**	**Module Type**
FREEXY15 Part 2 Elective	7.5	15	Option	FREEXY15 Part 2 Elective	7.5	15	Option
LANGXX15 Language Module	7.5	15	Option	LANGXX15 Language Module	7.5	15	Option
MATH2003 Group Theory	7.5	15	Option	MATH2014 Algorithms	7.5	15	Option
MATH2013 Introduction to Operational Research	7.5	15	Option	MATH2044 Fields and Fluids	7.5	15	Option
MATH2045 Vector Calculus and Complex Variable	7.5	15	Option	MATH2049 Geometry and Topology	7.5	15	Option
Option Modules: **Must take 0 credits up to a maximum of 7.5 ECTS/15 CATS from the following:**							
FREEXZ15 Part 3 Elective	7.5	15	Option	FREEXZ15 Part 3 Elective	7.5	15	Option
LANGXX15 Language Module	7.5	15	Option	LANGXX15 Language Module	7.5	15	Option
				STAT3010 Statistical Methods in Insurance	7.5	15	Option