

## Programme Regulations: 2021/22

**Programme Titles: BSc (Hons) Mathematics with Finance – UCAS Code: G1N3**

**BSc (Hons) Mathematics with Finance with Placement Year – Code: G1NZ**

**BSc (Hons) Mathematics with Management – UCAS Code: G1N2\***

**BSc (Hons) Mathematics with Management with Placement Year - Code: G1NY\***

**BSc (Hons) Mathematics with Business – UCAS Code: G1N4**

**BSc (Hons) Mathematics with Business with Placement Year –Code: 1556U**

### Notes

- (i) *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- (ii) *All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.*
- (iii) *Unless otherwise stated under 'Type', modules are not core.*
- (iv) *A compulsory module is a module which a student is required to study.*
- (v) *A core module is a module which a student must pass, and in which a fail mark may neither be carried nor compensated; such modules are designated by the board of studies as essential for progression to a further stage of the programme or for study in a further module.*
- (vi) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (vii) *Students are not recruited to G1NZ/G1NY/1556U. Rather a G1N3/G1N2/G1N4 candidate may transfer to G1NZ/G1NY/1556U by the end of week 5 of Semester 2 of Stage 2, subject to the agreement of the Degree Programme Director.*
- (viii) *Programme transfers for Tier 4 students may be restricted by current Tier 4 rules. Please refer to the Visa Team for advice.*
- (ix) *\*Programmes G1N2 and G1NY are withdrawn from admission effective from September 2019.*

### 1. Stage 1

- (a) All candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
MAS1605	Introduction to Calculus	20	20	0	4	Core	
MAS1606	Introductory Algebra	20	20	0	4	Core	
MAS1607	Multivariable Calculus & Differential Equations	20	0	20	4	Core	
MAS1608	Introduction to Probability & R	20	0	20	4	Core	

(b) G1N3 candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
ACC1010	Introduction to Financial Accounting	20	10	10	4	Core	
ACC1011	Introduction to Management Accounting & Finance	20	10	10	4	Core	

(c) G1N4 candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
ACC1000	Introduction to Non-Specialist Accounting & Finance	20	10	10	4		
BUS1001	Introduction to Management & Organisation	20	10	10	4	Core	

## 2. Stage 2

(a) All candidates shall select optional modules to a total credit value of 80. This must include all 40 credits from either block (ii) or block (iii).

(i) Candidates may select 20 credits from the following list:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
MAS2702	Complex Analysis	10	10	0	5		
MAS2703	Algebra	10	0	10	5		
MAS2707	Vector Spaces, Groups & Algorithms	20	10	10	5		

(ii) Candidates shall select 20 or 40 credits from the following list. If only 20 credits are chosen, it must be MAS2804.

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
MAS2803	Fluid Dynamics	10	0	10	5		
MAS2804	Vector Calculus, Differential Equations & Transforms and waves	20	10	10	5		
MAS2806	Scientific Computation with Python	10	10	0	5		

(iii) Candidates shall select 20 or 40 credits from the following list. If only 20 credits are chosen, it must be MAS2904.

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
MAS2903	Introduction to Bayesian Methods	10	0	10	5		
MAS2904	Statistical Inference & Stochastic Modelling	20	10	10	5		

MAS2906	Computational Probability & Statistics with R	10	10	0	5		
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(b) G1N3 candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
ACC2000	Interpreting Company Accounts	20	10	10	5		
ACC2007	Corporate Finance	20	10	10	5	Core	

(c) G1N2/G1N4 candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
ACC2000	Interpreting Company Accounts	20	10	10	5		
BUS2000	Human Resource Management	20	10	10	5		

### 3. Year 3 (Placement Year – G1NZ/G1NY/1556U only)

On completion of Stage 2 and before entering Stage 3, candidates may as part of their studies for the degree spend a year in a placement with an approved organisation. Permission to undertake a placement is subject to the approval of the Degree Programme Director. Students who are required to re-sit their Stage 2 assessment must delay the start of their placement until they have done so. Students who fail Stage 2 may not complete a placement year.

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
NCL3000	Careers Service Placement Year Module	120	60	60	6		

### 4. Stage 3

(a) G1N3 candidates shall take the following compulsory module:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
MAS3904	Stochastic Financial Modelling	10	10	0	6		

(b) G1N2/G1N4 candidates shall select 80 credits of optional modules from the following list; G1N3 candidates shall select 70 credits of optional modules from the following list (excluding MAS3904). These options are subject to having taken the relevant pre-requisites.

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
MAS3802	Quantum Mechanics	10	0	10	6		
MAS3803	Advanced Fluid Dynamics	10	10	0	6		
MAS3804	Relativity	10	10	0	6		
MAS3808	Instabilities	10	10	0	6		
MAS3809	Variational Methods & Lagrangian Dynamics	10	0	10	6		

MAS3810	Methods for Differential Equations & Partial Differential Equations & Non – Linear Waves	20	10	10	6		
MAS3815	Mathematical Biology	10	0	10	6		
MAS3902	Bayesian Inference	10	0	10	6		
MAS3904	Stochastic Financial Modelling	10	10	0	6		
MAS3905	Statistical Inference	10	10	0	6		
MAS3907	Big Data Analytics	10	0	10	6		
MAS3909	Markov Processes	10	10	0	6		
MAS3911	Time Series	10	0	10	6		
MAS3913	Linear & Generalised Linear Models	20	10	10	6		

*Note: With the permission of the Degree Programme Director, candidates may replace up to 20 credits of the optional modules above with alternative optional Stage 3 MAS modules in September, if the timetable allows (and if they have taken the relevant pre-requisites).*

(c) G1N3 candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
ACC3000	Case Studies in Finance, Accounting & Business	20	10	10	6		
ACC3006	International Financial Management	20	10	10	6		

(d) G1N2/G1N4 candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type	Subject
ACC3000	Case Studies in Finance, Accounting & Business	20	10	10	6		
BUS3000	Enterprise & Entrepreneurship with Lean Innovation	20	10	10	6		

## 5. Assessment methods

Details of the assessment pattern for each module are explained in the module outline.

## 6. Degree classification

Candidates will be assessed for degree classification on the basis of all the modules taken at Stages 2 and 3 with the weighting of the Stages being 1:2 for Stage 2 and Stage 3 respectively. The Placement Year will not be used in the classification of G1NZ/G1NY/1556U candidates.