

Programme Regulations: 2026/27

Programme Titles:

BSc (Hons) Data Science – UCAS Code: G200

BSc (Hons) Data Science with Study Abroad – Code: 1908U

BSc (Hons) Data Science with Careers Placement – Code: 1010U

Notes

- *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- *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.*
- *Unless otherwise stated under "Type", modules are not core.*
- *A compulsory module is a module which a student is required to study.*
- *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.*
- *All modules are delivered in Linear mode unless stated otherwise.*
- *Students are not recruited to 1908U. Rather a G200 candidate may transfer to 1908U by the end of week 5 of Semester 2 of Stage 2, subject to agreement of the Degree Programme Director.*
- *Programme transfers for Student Visa students may be restricted. Please refer to the Visa Team for advice.*

1. Stage 1

All candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
CSC1033	Foundations of Data Science	20	10	10	4	
CSC1034	Programming Portfolio I	30	30		4	
MSP1038	Introductory Algebra	10	10		4	Core
MSP1613	Multivariable Calculus	10		10	4	Core
MAS1614	Real Analysis	10		10	4	
MAS1615	Introductory Calculus	10	10		4	Core
MAS1616	Introduction to Probability & Statistics	20		20	4	Core
MAS1702	Number Systems	10		10	4	

2. Stage 2

All candidates shall take the following compulsory modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
CSC2031	Security Programming	20	20		5	
CSC2032	Algorithm Design & Analysis	10	10		5	
DSC2001	Frontiers in Data Science A	10		10	5	
MAS2701	Linear Algebra	10	10		5	
MAS2901	Statistical Inference	10	10		5	
MAS2907	Stochastic Processes	10		10	5	

MAS2908	Data Visualisation	10		10	5	
MAS2909	Probability	10	10		5	
MAS2910	Regression	10		10	5	

Stage 2 (a) – Pure Mathematics pathway: MAS2703 and either MAS2713 or MAS2714

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
MAS2703	Groups and Rings	10		10	5	
MAS2713	Curves and Surfaces	10		10	6	
MAS2714	Coding Theory	10		10	6	

Stage 2 (b) – Applied Mathematics pathway: choose 20 credits from

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
MSP2020	Principle of Quantum Mechanics	10		10	5	
MAS2806	Numerical Methods with Python	10		10	6	
MSP2815	Mathematical Biology	10		10	6	

3. Intercalating Year – (a) Careers Placement Year

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

3. Intercalating Year – (b) International Study Year (1908U)

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
ISY3000	International Study Year	120	60	60	6	

4. Stage 3 – (a) Compulsory modules

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
CSC3831	Computer Vision and AI	20	20		6	
DSC3001	Data Innovation Bootcamp	10	10		6	
DSC3002	Frontiers in Data Science B	10		10	6	
MAS3093	Data Science Group Project	10		10	6	
MAS3919	Foundations of Machine Learning	10		10	6	
MAS3928	Statistical Modelling	10	10		6	

4. Stage 3 – (b) Candidates shall choose 50 credits from the following list of modules:

Code	Descriptive Title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Type
CSC3432	Biomedical Data Analytics and AI	20	20		6	
CSC3731	Human Computer Interaction: Interaction Design	20	20		6	
CSC3833	Data Visualization & Visual Analytics	10	10		6	
HSC3100	Clinical Trials	10		10	6	
HSC3101	Decision Modelling for Health Data Science	10		10	6	

HSC3102	Topics in Medical Statistics and Health Data Science	10		10	6	
MAS2713	Curves & Surfaces	10		10	6	
MAS2714	Coding Theory	10		10	6	
MAS3701	Group Theory	10	10		6	
MAS3702	Linear Analysis	10		10	6	
MAS3705	Matrix Analysis	10	10		6	
MAS3706	Metric Spaces & Topology	10	10		6	
MAS3707	Number Theory & Cryptography	20	10	10	6	
MAS3709*	Matrix Representations of Groups	10		10	6	
MAS3716*	Measure Theory	10		10	6	
MAS3904	Stochastic Financial Modelling	10		10	6	
MAS3908	Experimental Design	10		10	6	
MAS3921	Extreme Value Theory	10		10	6	
MAS3923	Time Series	10		10	6	
MAS3924	Survival Analysis	10		10	6	
MAS3925	Statistical Genetics	10		10	6	
MAS3927	Mathematical Statistics	10	10		6	
MAS3929	Bayesian Statistics and Decision Theory	10	10		6	
MAS3931	Markov Processes	10		10	6	
MSP2020	Principle of Quantum Mechanics	10		10	5	
MAS2806	Numerical Methods with Python	10		10	6	
MSP2815	Mathematical Biology	10		10	6	
MSP3020	Advanced Quantum Mechanics	10	10		6	

Notes

- Candidates should look to select modules with a credit weighting of 60/60 per semester. A 70/50 or 50/70 split is allowable, but candidates should speak to their personal tutor in the first instance.
- Optional modules will not necessarily be available in all combinations. In particular, we anticipate that only one module can be chosen from each of the following pairs of modules: MAS3716 & MAS3921; MAS3702 & MAS3908.
- *MAS3709 and MAS3716 are available every other year on a rolling basis: MAS3709 in 2026/27, MAS3716 in 2027/28
- A module in list 4(b) above cannot be taken if the same module was taken at Stage 2.

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.