

These programme regulations should be read in conjunction with the University's [core regulations for undergraduate programmes](#), and the [marking and classification conventions for undergraduate programmes](#).

**BSc Mathematics and Statistics (G111)**  
(for candidates admitted from October 2024)

1. This programme is available at Durham City, in a full-time mode of study.

**Level 1 (Certificate)**

2. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Analysis I #	<a href="#">MATH1051</a>	20
Calculus I (Maths Hons) #	<a href="#">MATH1081</a>	20
Linear Algebra I (Maths Hons) #	<a href="#">MATH1091</a>	20
Dynamics I (students starting before 2025)	<a href="#">MATH1607</a>	10
Dynamics and Relativity I (students starting 2025 onwards)	<a href="#">MATH1627</a>	10
Probability I #	<a href="#">MATH1597</a>	10
Programming I	<a href="#">MATH1587</a>	10
Statistics I #	<a href="#">MATH1617</a>	10

3. Candidates shall also study and be assessed in EITHER the module

		<b>Credit value</b>
Discrete Mathematics	<a href="#">MATH1031</a>	20
OR		
Module(s) to the value of 20 credits offered by any other Boards of Studies (including up to 20 credits of appropriate language modules offered by the University's Centre for Foreign Language Study).		

**Level 2 (Diploma)**

4. Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Mathematical Methods II	<a href="#">MATH2811</a>	20
Statistical Inference II	<a href="#">MATH2761</a>	20
Data Science and Statistical Modelling II	<a href="#">MATH2801</a>	20

5. Candidates shall also study and be assessed in modules to the value of 20 credits from List 2A and 40 credits from List 2B:

<b>List 2A:</b>		<b>Credit value</b>
Algebra II	<a href="#">MATH2781</a>	20
Computational Mathematics II	<a href="#">MATH2731</a>	20

<b>List 2B:</b>		<b>Credit value</b>
Complex Analysis II	<a href="#">MATH2791</a>	20
Methods of Mathematical Physics II	<a href="#">MATH2741</a>	20
Probability II	<a href="#">MATH2751</a>	20

Open module(s) to the value of 20 credits offered by any other Board of Studies (including a language module offered by the University's Centre for Foreign Language Study) may be submitted for one module in either List 2A or List 2B.

### Level 3 (Degree)

6. Candidates shall study and be assessed to the value of 40 credits in modules from the following list:

		<b>Credit value</b>
Group Project III	<a href="#">MATH3531</a>	20
Individual Project III	<a href="#">MATH3541</a>	20
Internship Project	<a href="#">MATH3452</a>	40

7. Candidates shall also study and be assessed in modules to the value of at least 40 credits from Lists 3AS and 3BS, where at least 20 credits are taken from List 3AS:

<b>List 3AS:</b>		<b>Credit value</b>
Advanced Statistical Modelling	<a href="#">MATH3411</a>	20
Bayesian Computation and Modelling	<a href="#">MATH3421</a>	20

#### **List 3BS**

Decision Theory	<a href="#">MATH3071</a>	20
Machine Learning and Neural Networks	<a href="#">MATH3431</a>	20

8. Candidates shall also study and be assessed in modules to the value of at most 40 credits **EITHER** from List 3C, which is guaranteed to be timetable compatible with lists 3AS and 3BS:

<b>List 3C:</b>		<b>Credit value</b>
Analysis and Topology III	<a href="#">MATH3551</a>	20
Codes and Knots III	<a href="#">MATH3501</a>	20
Mathematical Biology III	<a href="#">MATH3171</a>	20
Mathematics into Schools	<a href="#">MATH3481</a>	20
Number Theory III	<a href="#">MATH3031</a>	20
Partial Differential Equations III	<a href="#">MATH3291</a>	20
Operations Research III	<a href="#">MATH3141</a>	20
Fluid Mechanics III	<a href="#">MATH3101</a>	20

**OR**, subject to timetable compatibility, may choose from any modules offered at Level 3 by the Department of Mathematical Sciences, and up to 20 credits of open modules from those offered by any other Board of Studies (including appropriate credit-bearing language modules offered by the University's Centre for Foreign Language Study).

### Year Abroad/Placement

9. Students admitted to the BSc Mathematics and Statistics (G111) are able to apply to transfer to the BSc Mathematics and Statistics (with Year Abroad/Placement) programme (G113/G112). Students undertaking the BSc Mathematics and Statistics (with Year Abroad) programme (G112) will undertake an approved exchange in an overseas university taking a course of study chosen in consultation with the programme director and the host institution. Students undertaking the BSc Mathematics and Statistics with Placement programme (G113) will undertake an approved placement chosen in consultation with the programme director and the host.

### Assessment, progression and award

10. Modules marked with the # symbol must be passed at 40% or above in order to progress to the next level of study.