

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](#).

*This document contains separate regulations based on programme start date (from October 2024 and in October 2023 or earlier).*

*Please ensure that you review the correct programme regulations for your start date.*

## **BSc Mathematics and Statistics with Year Abroad (G112)**

### **BSc Mathematics and Statistics with Placement (G113)**

*(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>		
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 substituted for one module in either List 2A or List 2B.

### Year Abroad (Year 3)

6. This programme is only available to students admitted initially to the BSc Mathematics and Statistics (G111) programme (or equivalent). Candidates wishing to transfer to BSc Mathematics and Statistics with year abroad (G112) must:
  - a. successfully complete Level 1 of the BSc Mathematics and Statistics (G111) programme (or equivalent) with an average mark of 55%, and be eligible to progress to Level 2 of the programme;
  - b. during Level 2 study, have applied to the Board of Studies in Mathematical Sciences to be admitted to the BSc Mathematics and Statistics with year abroad (G112) and have had their application approved by that Board;
  - c. secure an exchange opportunity with an approved international partner institution of the University;
  - d. successfully complete Level 2 of their existing programme (G111 or equivalent) so as to be eligible to progress to Level 3;
  - e. where tuition at the Overseas Partner Institution is in a foreign language, candidates must have taken at least 20 credits in an appropriate language module at level 1.

### Placement (Year 3)

7. This programme is only available to students admitted initially to the BSc Mathematics and Statistics (G111) programme (or equivalent). Candidates wishing to transfer to BSc Mathematics and Statistics with Placement (G113) must:
  - a. successfully complete Level 1 of the BSc Mathematics and Statistics (G111) programme (or equivalent) with an average mark of 55%, and be eligible to progress to Level 2 of the programme;
  - b. during Level 2 study, have applied to the Board of Studies in Mathematical Sciences to be admitted to the BSc Mathematics and Statistics with Placement (G113) and have had their application approved by that Board;
  - c. secure a Placement Year opportunity or opportunities comprising at least 40 weeks of professional-level work experience, agreed with the Departmental Placement Year Convenor and Faculty Placement Manager;
  - d. successfully complete Level 2 of their existing programme (G111 or equivalent) so as to be eligible to progress to Level 3.
8. During the third year candidates shall undertake an approved placement in industry, or in an institution or organisation undertaking research, for 40 weeks.

### Level 3 (Degree)

9. 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

10. 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
 <b>List 3BS</b>		
Decision Theory	<a href="#">MATH3071</a>	20

Machine Learning and Neural Networks [MATH3431](#) 20

11. 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).

#### **Assessment, progression and award**

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

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### **BSc Mathematics and Statistics with Year Abroad (G112)**

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*(for candidates admitted in October 2023 or earlier)*

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#### **Level 1 (Certificate)**

- 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	<a href="#">MATH1607</a>	10
Probability I #	<a href="#">MATH1597</a>	10
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Statistics I #	<a href="#">MATH1617</a>	10

- 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)**

- Candidates shall study and be assessed in the following modules:

		<b>Credit value</b>
Analysis in Many Variables II	<a href="#">MATH2031</a>	20
Statistical Inference II #	<a href="#">MATH2711</a>	20
Data Science and Statistical Computing II	<a href="#">MATH2687</a>	10
Statistical Modelling II	<a href="#">MATH2697</a>	10

- Candidates shall also study and be assessed in modules to the value of 60 credits from List A:

<b>List A:</b>		<b>Credit value</b>
Algebra II	<a href="#">MATH2581</a>	20
Complex Analysis II	<a href="#">MATH2011</a>	20
Mathematical Physics II	<a href="#">MATH2071</a>	20
Numerical Analysis II	<a href="#">MATH2051</a>	20
Elementary Number Theory II	<a href="#">MATH2617</a>	10
Markov Chains II	<a href="#">MATH2707</a>	10
Mathematical Modelling II	<a href="#">MATH2637</a>	10
Probability II	<a href="#">MATH2647</a>	10
Special Relativity and Electromagnetism II	<a href="#">MATH2657</a>	10
Topology II	<a href="#">MATH2727</a>	10

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