Durham University
Undergraduate Modules Online
https://apps.dur.ac.uk/faculty.handbook/

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:

		Credit value
Analysis I #	MATH1051	20
Calculus I (Maths Hons) #	MATH1081	20
Linear Algebra I (Maths Hons) #	MATH1091	20
Dynamics I **(students starting before 2025)**	MATH1607	10
Dynamics and Relativity I **(students starting 2025 onwards)**	MATH1627	10
Probability I #	MATH1597	10
Programming I	MATH1587	10
Statistics I #	MATH1617	10

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

		Credit value
Discrete Mathematics	MATH1031	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:

		Credit value
Mathematical Methods II	MATH2811	20
Statistical Inference II	MATH2761	20
Data Science and Statistical Modelling II	MATH2801	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:

List 2A:		Credit value
Algebra II	MATH2781	20
Computational Mathematics II	MATH2731	20
List 2B:		
Complex Analysis II	MATH2791	20
Methods of Mathematical Physics II	MATH2741	20
Probability II	MATH2751	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:

		Credit value
Group Project III	MATH3531	20
Individual Project III	MATH3541	20
Internship Project	MATH3452	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:

List 3AS:		**Credit value**
Advanced Statistical Modelling	MATH3411	20
Bayesian Computation and Modelling	MATH3421	20
List 3BS		
Decision Theory	MATH3071	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:

List 3C:		**Credit value**
Analysis and Topology III	MATH3551	20
Codes and Knots III	MATH3501	20
Mathematical Biology III	MATH3171	20
Mathematics into Schools	MATH3481	20
Number Theory III	MATH3031	20
Partial Differential Equations III	MATH3291	20
Operations Research III	MATH3141	20
Fluid Mechanics III	MATH3101	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.

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 with Year Abroad (G112)

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(for candidates admitted in October 2023 or earlier)

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

		Credit value
Discrete Mathematics	MATH1031	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:

		Credit value
Analysis in Many Variables II	MATH2031	20
Statistical Inference II #	MATH2711	20
Data Science and Statistical Computing II	MATH2687	10
Statistical Modelling II	MATH2697	10

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

List A:		**Credit value**
Algebra II	MATH2581	20
Complex Analysis II	MATH2011	20
Mathematical Physics II	MATH2071	20
Numerical Analysis II	MATH2051	20
Elementary Number Theory II	MATH2617	10
Markov Chains II	MATH2707	10
Mathematical Modelling II	MATH2637	10
Probability II	MATH2647	10
Special Relativity and Electromagnetism II	MATH2657	10
Topology II	MATH2727	10

Year Abroad (Year 3)

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   c. secure an exchange opportunity with an approved international partner institution of the University;

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Placement (Year 3)

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