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.

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:

		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 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:

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

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

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:

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).

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.