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 (G100), BSc Mathematics with Placement (G108), BSc Mathematics with Year Abroad (G109)

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
Calculus I (Maths Hons) #	MATH1081	20
Linear Algebra I (Maths Hons) #	MATH1091	20
Analysis I #	MATH1051	20
Programming I	MATH1587	10
Dynamics and Relativity I	MATH1627	10
Probability I	MATH1597	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
Complex Analysis II	MATH2791	20

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

List 2A:		Credit value
Algebra II	MATH2781	20
Computational Mathematics II	MATH2731	20
Statistical Inference II	MATH2761	20
List 2B:		
Data Science and Statistical Modelling II	MATH2801	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 3 (Placement Year)

6. During the third year candidates shall undertake an approved placement in industry, or in an institution or organisation undertaking research, for 40 weeks.

7. This programme is only available to students admitted initially to the BSc Mathematics (G100) programme (or equivalent). Candidates wishing to transfer to BSc Mathematics with placement (G108) must:

2025-2026

a. successfully complete Level 1 of the BSc Mathematics (G100) 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 with placement (G108) 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 (G100 or equivalent) so as to be eligible to progress to Level 3.

Year Abroad (Year 3)

8. This programme is only available to students admitted initially to the BSc Mathematics (G100) programme (or equivalent). Candidates wishing to transfer to BSc Mathematics with year abroad (G109) must:

   a. successfully complete Level 1 of the BSc Mathematics (G100) 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 with year abroad (G109) 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 (G100 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.

Level 3 (Degree)

9. Candidates shall study and be assessed in the following module to the value of 40 credits:

		Credit value
Project III ~	MATH3382	40

10. Candidates shall study and be assessed in **EITHER** modules to the value of 80 credits from one or more of Lists 3A, 3B, 3C, subject to timetable compatibility (note that modules within each list are guaranteed to be timetable compatible) **OR** (again, subject to timetable compatibility) modules to the value of 60 credits from one or more of Lists 3A, 3B, 3C and 20 credits of open modules chosen 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):

List 3A:		Credit value
Analysis III	MATH3011	20
Cryptography and Codes III	MATH3401	20
Decision Theory III	MATH3071	20
Mathematical Biology III	MATH3171	20
Mathematics into Schools	MATH3481	20
Number Theory III	MATH3031	20
Partial Differential Equations III	MATH3291	20
Differential Geometry III	MATH3021	20
Solitons III	MATH3231	20
Operations Research III	MATH3141	20
Geometric Topology III	MATH3491	20
Galois Theory III	MATH3041	20
Geometry III	MATH3201	20
Dynamical Systems III	MATH3091	20

List 3B:

Analysis III	MATH3011	20
Cryptography and Codes III	MATH3401	20
Decision Theory III	MATH3071	20
Mathematical Biology III	MATH3171	20
Mathematics into Schools	MATH3481	20
Number Theory III	MATH3031	20
Partial Differential Equations III	MATH3291	20
Differential Geometry III	MATH3021	20
Solitons III	MATH3231	20
Geometry of Mathematical Physics III	MATH3471	20
Fluid Mechanics III	MATH3101	20
Quantum Computing III	MATH3391	20
Quantum Mechanics III	MATH3111	20
Dynamical Systems III	MATH3091	20

List 3C:

Analysis III	MATH3011	20
Cryptography and Codes III	MATH3401	20
Decision Theory III	MATH3071	20
Mathematical Biology III	MATH3171	20
Mathematics into Schools	MATH3481	20
Number Theory III	MATH3031	20
Partial Differential Equations III	MATH3291	20
Advanced Statistical Modelling III	MATH3411	20
Bayesian Computation and Modelling III	MATH3421	20
Operations Research III	MATH3141	20
Fluid Mechanics III	MATH3101	20
Machine Learning and Neural Networks III	MATH3431	20
Stochastic Processes III	MATH3251	20
Mathematical Finance III	MATH3301	20

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

12. Modules marked with the ~ symbol must be passed at 40% or above for the award of an honours degree. A mark of 30-39% cannot be compensated.

Year Abroad/Placement

13. Students admitted to the BSc Mathematics (G100) are able to apply to transfer to the BSc Mathematics (with Year Abroad/Placement) programme (G109/G108). Students undertaking the BSc Mathematics (with Year Abroad) programme (G109) 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 (Placement) programme (G108) will undertake an approved work or training placement in consultation with the programme director and placement provider.

14. Students who the Board of Examiners for Mathematics deem to have made satisfactory progress on the year abroad/placement will continue to Level 3 of the BSc Mathematics (with Year Abroad/Placement) (G109/G108). Students who have not made satisfactory progress on the year abroad/placement will not be permitted to continue on the BSc Mathematics (with Year Abroad/Placement) (G109/G108) programme, but must instead proceed to Level 3 of the BSc Mathematics (G100) programme.