

## BSc Mathematics (G100)

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

### Level 1 (Certificate)

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

		<b>Credit value</b>
Calculus and Probability I #	<a href="#">MATH1061</a>	20
Linear Algebra I #	<a href="#">MATH1071</a>	20
Analysis I #	<a href="#">MATH1051</a>	20
Programming and Dynamics I	<a href="#">MATH1041</a>	20

- Candidates shall also study and be assessed in modules up to the value of 40 credits offered by any Boards of Studies (including appropriate credit-bearing 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>
Complex Analysis II	<a href="#">MATH2011</a>	20
Analysis in Many Variables II	<a href="#">MATH2031</a>	20

- Candidates shall also study and be assessed in modules to the value of 20 or 40 credits from List A1:

<b>List A1:</b>		<b>Credit value</b>
Statistical Concepts II	<a href="#">MATH2041</a>	20
Numerical Analysis II	<a href="#">MATH2051</a>	20

- Candidates shall also study and be assessed in modules to the value of 40 or 60 credits from List A2:

<b>List A2:</b>		<b>Credit value</b>
Algebra II	<a href="#">MATH2581</a>	20
Actuarial Mathematics II	<a href="#">MATH2607</a>	10
Elementary Number Theory II	<a href="#">MATH2617</a>	10
Geometric Topology II	<a href="#">MATH2627</a>	10
Mathematical Physics II	<a href="#">MATH2071</a>	20
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

### Level 3 (Degree)

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

		<b>Credit value</b>
Project III	<a href="#">MATH3382</a>	40

- Candidates shall study and be assessed in **EITHER** modules to the value of 80 credits from List B **OR** modules to the value of 60 credits from List B and one open 20 credit module 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](#)):

<b>List B2 (2016-2017):</b>		<b>Credit value</b>
Approximation Theory and Solution to Odes III	<a href="#">MATH3081</a>	20
Elliptic Functions III	<a href="#">MATH3221</a>	20
Geometry III	<a href="#">MATH3201</a>	20
Number Theory III	<a href="#">MATH3031</a>	20
Probability III	<a href="#">MATH3211</a>	20

Statistical Mechanics III	<a href="#">MATH3351</a>	20
Topics in Statistics III	<a href="#">MATH3361</a>	20

**List B1 (2015-2016):**

		<b>Credit value</b>
Algebraic Geometry III	<a href="#">MATH3321</a>	20
Analysis III	<a href="#">MATH3011</a>	20
Bayesian Statistics III	<a href="#">MATH3341</a>	20
Continuum Mechanics III	<a href="#">MATH3101</a>	20
General Relativity III	<a href="#">MATH3331</a>	20
Representation Theory III	<a href="#">MATH3371</a>	20
Solitons III	<a href="#">MATH3231</a>	20
Stochastic Processes III	<a href="#">MATH3251</a>	20

**List B3:**

		<b>Credit value</b>
Decision Theory III	<a href="#">MATH3071</a>	20
Differential Geometry III	<a href="#">MATH3021</a>	20
Dynamical Systems III	<a href="#">MATH3091</a>	20
Electromagnetism III	<a href="#">MATH3181</a>	20
Galois Theory III	<a href="#">MATH3041</a>	20
Mathematical Biology III	<a href="#">MATH3171</a>	20
Mathematical Finance III	<a href="#">MATH3301</a>	20
Mathematics Teaching III	<a href="#">MATH3121</a>	20
Operations Research III	<a href="#">MATH3141</a>	20
Partial Differential Equations III	<a href="#">MATH3291</a>	20
Quantum Mechanics III	<a href="#">MATH3111</a>	20
Statistical Methods III	<a href="#">MATH3051</a>	20
Topology III	<a href="#">MATH3281</a>	20

Lists B1 and B2 will be offered in alternate years, List B3 will run in both years.

8. Modules marked with a # must be passed at 40% or above in order to progress to the next Level of the Ordinary degree.