

## BSc MATHEMATICS (EUROPEAN STUDIES) (G104)

Programme offered at: Durham.

Mode of study: this programme is available full-time.

### LEVEL 1 (Certificate)

1-2	Core Mathematics A	<a href="#">MATH1012</a>	40
3	Core Mathematics B1	<a href="#">MATH1051</a>	20
4	Core Mathematics B2	<a href="#">MATH1041</a>	20
5-6	Modules to the value of 40 credits chosen from those offered by any Board of Studies, of which at least 20 credits must be an appropriate language module. The language requirement does not apply to students spending the year abroad at Trinity College, Dublin.		

### LEVEL 2 (Diploma)

1	EITHER	Complex Analysis II	<a href="#">MATH2011</a>	20
	OR	Contours and Hyperbolic Geometry II	<a href="#">MATH2121</a>	20
2		Linear Algebra II	<a href="#">MATH2021</a>	20
3		Analysis in Many Variables II	<a href="#">MATH2031</a>	20
4-6	Modules to the value of 60 credits chosen from:			
		Statistical Concepts II	<a href="#">MATH2041</a>	20
		Numerical Analysis II	<a href="#">MATH2051</a>	20
		Algebra and Number Theory II	<a href="#">MATH2061</a>	20
		Mathematical Physics II	<a href="#">MATH2071</a>	20
		Topics in Mathematics II	<a href="#">MATH2101</a>	20

### YEAR 3 (Year Abroad)

During the third year students must study and be assessed in a mathematics programme (together, possibly, with other topics) in a European university under the Socrates-ERASMUS Programme.

### LEVEL 3 (Degree)

1	EITHER	Communicating Mathematics III	<a href="#">MATH3131</a>	20
	OR	Mathematics Teaching III	<a href="#">MATH3121</a>	20
2-6	<b>EITHER</b>	Modules to the value of 100 credits chosen from List A		
	<b>OR</b>	Modules to the value of 80 credits chosen from List A		
	AND	one open 20 credit module chosen from those offered by any Board of Studies		

Note:

The availability of this degree is dependent on the University receiving funding under the EU Socrates-ERASMUS Programme.

### LIST A

*(Lists A1 and A2 will be offered in alternate years, List A3 will run in both years)*

#### List A1 (2005-2006)

Analysis III	<a href="#">MATH3011</a>	20
Continuum Mechanics III	<a href="#">MATH3101</a>	20
Representation Theory and Modules III	<a href="#">MATH3191</a>	20
Stochastic Processes III	<a href="#">MATH3251</a>	20
Bayesian Methods III	<a href="#">MATH3311</a>	20
General Relativity III	<a href="#">MATH3331</a>	20
Mathematical Finance III	<a href="#">MATH3301</a>	20

#### List A2 (2006-2007)

Number Theory III	<a href="#">MATH3031</a>	20
Approximation Theory and Solutions to ODEs III	<a href="#">MATH3081</a>	20
Geometry III	<a href="#">MATH3201</a>	20
Probability III	<a href="#">MATH3211</a>	20
Elliptic Functions III	<a href="#">MATH3221</a>	20
Solitons III	<a href="#">MATH3231</a>	20
Bayesian Statistics III	<a href="#">MATH3**1</a>	20
Statistical Mechanics III	<a href="#">MATH3**1</a>	20

**List A3**

Differential Geometry III	<a href="#">MATH3021</a>	20
Galois Theory III	<a href="#">MATH3041</a>	20
Statistical Methods III	<a href="#">MATH3051</a>	20
Operations Research III	<a href="#">MATH3141</a>	20
Decision Theory III	<a href="#">MATH3071</a>	20
Dynamical Systems III	<a href="#">MATH3091</a>	20
Quantum Mechanics III	<a href="#">MATH3111</a>	20
Independent Study III	<a href="#">MATH3161</a>	20
Mathematical Biology III	<a href="#">MATH3171</a>	20
Electromagnetism III	<a href="#">MATH3181</a>	20
Topology III	<a href="#">MATH3281</a>	20
Partial Differential Equations III	<a href="#">MATH3291</a>	20

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