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	MATH1012	40
3	Core Mathematics B1	MATH1051	20
4	Core Mathematics B2	MATH1041	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	MATH2011	20
	OR	Contours and Actuarial Mathematics II	MATH2171	20
2	Linear Algebra II		MATH2021	20
3	Analysis in Many Variables II		MATH2031	20
4-6	Modules to the value of 60 credits chosen from:			
		Statistical Concepts II	MATH2041	20
		Numerical Analysis II	MATH2051	20
		Algebra and Number Theory II	MATH2061	20
		Mathematical Physics II	MATH2071	20
		Codes and Actuarial Mathematics II	MATH2131	20
		Codes and Geometric Topology II	MATH2141	20
		Probability and Actuarial Mathematics II	MATH2161	20
		Probability and Geometric Topology II	MATH2151	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	MATH3131	20
	OR	Mathematics Teaching III	MATH3121	20
2-6	**EITHER**	Modules to the value of 100 credits chosen from List A		
	OR	Modules to the value of 80 credits chosen from List A		
	AND	one open 20 credit module chosen from those offered by any other Board of Studies		

Note:

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

MODULE LISTS : MATHEMATICAL SCIENCES

LIST A

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

List A1 (2007-2008)

Analysis III	MATH3011	20
Continuum Mechanics III	MATH3101	20
Representation Theory and Modules III	MATH3191	20
Stochastic Processes III	MATH3251	20
Bayesian Methods III	MATH3311	20
General Relativity III	MATH3331	20
Mathematical Finance III	MATH3301	20

List A2 (2006-2007)

Number Theory III	MATH3031	20

Approximation Theory and Solutions to ODEs III	MATH3081	20
Geometry III	MATH3201	20
Probability III	MATH3211	20
Elliptic Functions III	MATH3221	20
Solitons III	MATH3231	20
Bayesian Statistics III	MATH3341	20
Statistical Mechanics III	MATH3351	20

List A3

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