

These programme regulations should be read in conjunction with the University's <u>core regulations for</u> <u>undergraduate programmes</u>, and the <u>marking and classification conventions for undergraduate</u> <u>programmes</u>.

Master of Mathematics (European Studies) (G101)

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
20
20
20
20

3. Candidates shall also study and be assessed in modules to the value of 40 credits from those offered by other boards of studies, of which at least 20 credits must be an appropriate language module.

Level 2 (Diploma)

4. Candidates shall study and be assessed in the following modules:

		Credit value
Complex Analysis II	<u>MATH2011</u>	20
Analysis in Many Variables II	<u>MATH2031</u>	20

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

List A1:		Credit value
Statistical Concepts II	<u>MATH2041</u>	20
Numerical Analysis II	<u>MATH2051</u>	20

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

List A2:		Credit value
Algebra II	<u>MATH2581</u>	20
Actuarial Mathematics II	<u>MATH2607</u>	10
Elementary Number Theory II	<u>MATH2617</u>	10
Geometric Topology II	<u>MATH2627</u>	10
Mathematical Physics II	<u>MATH2071</u>	20
Mathematical Modelling II	<u>MATH2637</u>	10
Probability II	<u>MATH2647</u>	10
Special Relativity and Electromagnetism II	<u>MATH2657</u>	10

Level 3 (Degree)

7. Candidates shall study and be assessed in the following modules:

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MMath (Euro) Level 3 Year Abroad	MATH	<u>13986</u> 120

Level 4 (Degree)

8. Candidates shall study and be assessed in the following modules:

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Mathematical Project IV	<u>MATH4072</u>	40

9. Candidates shall also study and be assessed in modules to the value of 80 credits from List C:

List C2 (2016-2017): Approximation Theory and Solutions to ODEs IV Elliptic Functions IV Geometry IV Number Theory IV Probability IV Statistical Mechanics IV Topics in Statistics IV	MATH4221 MATH4151 MATH4141 MATH4211 MATH4131 MATH4231 MATH4071	Credit value 20 20 20 20 20 20 20 20 20 20 20 20 20
List C1 (2015-2016): Algebraic Geometry IV Analysis IV Bayesian Statistics IV Continuum Mechanics IV General Relativity IV Representation Theory IV Stochastic Processes IV	MATH4011 MATH4201 MATH4031 MATH4081 MATH4051 MATH4241 MATH4091	Credit value 20 20 20 20 20 20 20 20 20
List C3: Advanced Quantum Theory IV Algebraic Topology IV Mathematical Finance IV Partial Differential Equations IV Riemannian Geometry IV Modules up to the value of 20 credits from another board of studies, subject to the agreement of the Mathematics Board of Studies	<u>MATH4061</u> <u>MATH4161</u> <u>MATH4181</u> <u>MATH4041</u> <u>MATH4171</u>	Credit value 20 20 20 20 20 20 20

Lists C1 and C2 will be offered in alternate years. List C3 will run in both years.

Assessment, progression and award

- 10. Modules marked with a # must be passed at 40% or above in order to progress to the Ordinary degree at the next Level.
- 11. Students who fail to achieve the standard required under the Core Regulations for progression to Level 3 of the MMath but who achieve the standard required for progression to Level 3 of a Bachelors programme may progress to Level 3 of the BSc in Mathematics at either Honours or Ordinary level in accordance with the Core Regulations.
- 12. A student who is qualified to progress from Level 2 to Level 3 of the MMath but wishes to transfer to Level 3 of the BSc Mathematics shall be permitted to do so.
- 13. 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. The student is also required to write an essay (about 2000 words, i.e., 4 pages) at the end of year 3 in a non-English language approved by the Director of Education. The essay will be assessed independently by two members of the Durham Department of Mathematical Sciences fluent in the language, and the mark will count 10% of the overall mark of the year. The results obtained will count fully towards the award of the MMath(Euro).
- 14. Students whose achievement at the end of Level 3 does not qualify them to proceed to Level 4 may transfer to BSc Mathematics (European Studies) in accordance with the Core Regulations for the award of that degree.
- 15. The choice of modules at Level 4 is subject to the approval of the course director.
- 16. Students whose achievement at the end of Level 4 does not qualify them to be awarded the degree of MMath may be awarded the degree of BSc Mathematics with Honours in accordance with the Core Regulations for the award of a Bachelors degree.