

## PROGRAMME SPECIFICATION DOCUMENT

(Refer to the University's document: Graduate Standards and Programme Specification Requirements  
for further guidance and to the University's Learning and Teaching Policy)

*June 2011*

<b>1. Qualification</b> BA/BSc (Hons)	<b>2. Programme Title</b> Mathematics	<b>3. UCAS Code</b> G100	<b>4. Programme Type</b> Modular (Single, Major, Joint, Minor) Full-time & Part-time
<b>5. Main Purposes and Distinctive Features of the Programme</b>			
<p>To open up a flexible range of opportunities for the study of Mathematics to honours degree level, and particularly to encourage mature, female and part-time students to study the subject either as single honours or in combination with one of a wide range of other subjects.</p>			

<b>6. What a graduate should know and be able to do on completion of the programme</b> (objectives and learning outcomes)	
<p>To gain the qualification the learner will have demonstrated: i) subject knowledge and understanding ii) cognitive skills iii) discipline-related practical and professional skills and iv) other general skills and capabilities (e.g. key/transferable/common) as specified in the learning objectives/outcomes for approved modules in the programme. Further details of module outcomes can be found in the programme document.</p>	
<p>The Learning Outcomes for the programme have been informed by the Quality Assurance Agency's Subject Benchmark for Mathematics Statistics and Operational Research of 2007 (abbreviated hereafter as <i>SBMSOR</i>).</p> <p>Upon completion of the Mathematics programmes students will have:</p> <p style="text-align: center;"><b>The Mathematics Pathway</b></p> <p>At Part 1</p> <p>(i) knowledge and understanding of, and the ability to use, mathematical methods and techniques, including calculus, abstract algebra and programming (<i>SBMSOR</i>, 3.9)</p> <p>(ii) knowledge and understanding of the role of logical mathematical argument and deductive reasoning (<i>SBMSOR</i>, 3.14)</p> <p>(iii) general communication, IT and study skills, including the word processing and use of the Internet, and the ability to write coherently and communicate results clearly (<i>SBMSOR</i>, 3.27).</p>	<p style="text-align: center;">At Part 2</p> <p>(iv) knowledge and understanding from a range of major areas of mathematics chosen from abstract and linear algebra, analysis, topology, differential equations, mechanics, probability theory and statistics (<i>SBMSOR</i>, 3.12).</p> <p>(v) an understanding of mathematical models, and their conditions and limitations. (<i>SBMSOR</i>, 3.19).</p> <p>(vi) general study skills, particularly including the ability to learn independently using a variety of media, including books and the Internet. (<i>SBMSOR</i>, 3.27).</p> <p>(vii) been prepared for a wide choice of career options through the academic content of the programme and the transferable skills it imparts (<i>SBMSOR</i>, 1.24).</p>

### 7. Subjects Studied, Levels, Credits & Qualifications

(Duration and structure of programme/modes of study/credit volume of study units)

3 years full time, 4½ years part time organised on 2 semesters per year basis.

Part 1 comprises 120 credits of level 1 modules. Part 2 comprises 120 credits of level 2 modules and 120 credits of level 3 modules

<b>Part 2 Levels H2 and H3</b>	H3	Dissertation (compulsory for single and major modes)	<i>Bachelor Honours Degree 360 Credits</i>
	H3 options	Complex Analysis, Incompressible Fluid Dynamics, Differential Equations and Applications, Probability, Ring Theory, Topology, Greek Geometry and Analysis, Group Theory, Further Linear Algebra.	
	H2 options	Discrete Maths, Linear Maths, Further Mathematical Methods, Vector Analysis, Dynamics, Numerical Analysis, Real Analysis, Statistical Theory, Survey Design and Analysis.	<i>HE Diploma 240 credits</i>
<b>Part 1 Level H1</b>	<u>Core</u>	Algebra, Maths Methods 1, Maths Methods 2, Structured Programming for Mathematics,	<i>HE Certificate 120 Credits</i>
		Foundation Studies in Mathematics (compulsory for single & major modes) Algorithms & Logic (compulsory for single honours)	

8. Learning, Teaching and Assessment Strategy	9. Other Information
<u>Learning and Teaching Methods</u>	<u>Date programme first offered</u>
Classroom based, with variety of activities including one-to-one tutorial and computer labs	October 1994
<u>Assessment Methods</u>	<u>Admissions Criteria</u>
Unseen written examinations and continuous assessment by coursework (see detailed assessment strategy).	<i>Standard Requirements</i>
<u>Assessment Classification System</u>	230 UCAS points including A2 in Mathematics
Pass mark for individual assessments – 40% Final degree classification based on aggregated performance in Part 2 modules.	<i>Non Standard Entry</i>
<u>Honours Classification Bands</u>	Polymaths
70 – 100            First class	HNC, HND or GNVQ in subject with mathematical content.
60 – 70            Upper second class	Technology foundation or access course.
50 – 60            Lower second class	Mature students considered on individual merits
40 – 50            Third class	
with consideration of borderline cases via modal analysis of grades.	