

Programme Specification

BSc Mathematics and Economics

For students entering Part 1 in September 2023

UCAS Code: GL11

UFMAXEC

UFMAXECEPE

UFMAXECSY

This document sets out key information about your Programme and forms part of your Terms and Conditions with the University of Reading.

Awarding Institution	University of Reading
Teaching Institution	University of Reading
Length of Programme	3 years
Length of Programme with placement/year abroad	BSc Mathematics and Economics with a Placement Year - 4 years (UCAS Code: GL12) BSc Mathematics and Economics with a Study Year Abroad - 4 years (internal transfer only)
Accreditation	N/A

Programme information and content

The programme aims to provide you with a broad based training in both mathematics and economics, a good preparation for work in quantitative economics and competence to use mathematical methods to create and study models of economic behaviour.

Part 1:	<p>In Mathematics Part 1 introduces you to core skills and knowledge through a number of introductory modules designed to manage the transition from A level (or equivalent) to university level mathematics. The Foundations of Mathematics module will establish the need for proof and will enable students to construct their own formal proofs. Other compulsory Part 1 mathematics modules build on and reinforce core material from the A level syllabus and form the basis for more advanced study in later years.</p> <p>In Economics Part 1 deals with the microeconomic and macroeconomic foundations of the subject and some basic techniques underpinning mathematical analysis in economics.</p>
Part 2:	<p>In Mathematics Part 2 provides you with more advanced topics in mathematics: the modules Vector Calculus and Differential Equations will employ techniques established in Part 1 Calculus and Linear Algebra.</p> <p>Economic principles are developed further at Part 2.</p>
Placement/Study abroad year:	The placement year provides experience of working in industry, government, research or other appropriate organisations. Training takes place in the workplace, usually including attendance at Continuing

	<p>Professional Development courses as well as mentoring by a line manager. Actual contact hours will vary according to the placement and employer.</p> <p>A year spent studying abroad gives students the opportunity to experience learning in a different environment.</p>
Part 3:	<p>Gives you the opportunity to undertake some project work in mathematics or economics. The choice of optional modules will allow you to express your preference for certain topics in pure or applied mathematics, and in economics.</p> <p>In Economics optional modules can be taken exploring further specific sub-disciplines and/or applications.</p>

Module information

Each part comprises 120 credits, allocated across a range of compulsory and optional modules as shown below. Compulsory modules are listed.

Part 1 Modules:

Module	Name	Credits	Level
EC113	Introductory Microeconomics	20	4
EC114	Introductory Macroeconomics	20	4
EC115	Introductory Quantitative Methods in Economics and Business 1	10	4
MA1CA	Calculus	20	4
MA1FM	Foundations of Mathematics	20	4
MA1LA	Linear Algebra	20	4

Students must take a further 10 credits of modules from a list available from the Department of Economics.

Part 2 Modules:

Module	Name	Credits	Level
EC201	Intermediate Microeconomics	20	5
EC202	Intermediate Macroeconomics	20	5
MA1RA1	Real Analysis I	20	4
MA2DE	Differential Equations	20	5

Students must also take a 20 credit module in either Economic Theory or Econometrics, plus a further 20 credits of optional modules from a list available from the Department of Mathematics and Statistics.

Modules during a placement year or study year (if applicable):

Students on the 4 year version of the programme will take one 120 credit module during their Work Experience or Study Abroad year.

Students may be permitted to undertake a placement/study abroad year between Part 2 and Part 3 of the programme. In such cases students will transfer to a 4-year programme. The placement year should not normally be shorter than nine months full-time.

If you take a year-long placement or study abroad, Part 3 as described below may be subject to variation.

Part 3 Modules:

Module	Name	Credits	Level
EC301	Advanced Microeconomics	20	6
EC302	Advanced Macroeconomics	20	6

Students must take a further 80 credits of optional modules from a list available from the Department of Mathematics and Statistics, 20 credits of which must be Economics modules.

The selection must include an Economics dissertation, a Mathematics project.

Optional modules:

The optional modules available can vary from year to year. An indicative list of the range of optional modules for your Programme is set out in the Further Programme Information. Details of optional modules for each part, including any Additional Costs associated with the optional modules, will be made available to you prior to the beginning of the Part in which they are to be taken and you will be given an opportunity to express interest in the optional modules that you would like to take. Entry to optional modules will be at the discretion of the University and subject to availability and may be subject to pre-requisites, such as completion of another module. Although the University tries to ensure you are able to take the optional modules in which you have expressed interest this cannot be guaranteed.

Additional costs of the programme

During your programme of study you will incur some additional costs.

For textbooks and similar learning resources, we recommend that you budget up to £100 per year, depending on your preference to have your own books rather than borrow from the library. Some books may be available second-hand, which will reduce costs. A range of resources to support your curriculum, including textbooks and electronic resources, are

available through the library. Reading lists and module specific costs are listed on the individual module descriptions.

You will need an approved scientific calculator (approximate cost £12).

Costs are indicative and may vary according to optional modules chosen and are subject to inflation and other price fluctuations.

The estimates were calculated in 2022.

Placement opportunities

Placements:

You may be provided with the opportunity to undertake a credit-bearing placement as part of your Programme. This will form all or part of an optional module. You will be required to find and secure a placement opportunity, with the support of the University.

Study Abroad:

You may be provided with the opportunity to undertake a Study Abroad placement during your Programme. This is subject to you meeting academic conditions detailed in the Programme Handbook, including obtaining the relevant permissions from your School, and the availability of a suitable Study Abroad placement. If you undertake a Study Abroad placement, further arrangements will be discussed and agreed with you.

Teaching and learning delivery:

You will be taught through lectures, tutorials, practical classes, computer classes and supervised project work.

The contact hours for your Programme will be (on average) 336 hours for Part 1, 276 hours for Part 2 and 228 hours for Part 3, and will depend upon your module combination; however information about module contact hours can be located in the relevant module description.

Accreditation details

N/A

Assessment

The programme will be assessed through a combination of written examinations, coursework (including class tests), and oral examinations. However, some modules are assessed only by coursework, while others are assessed solely by examination. Details are given in the relevant module descriptions.

Progression

The University-wide rules relating to 'threshold performance' as follows

Part 1

- (i) obtain an overall weighted average of 40% in 120 credits
- (ii) obtain a mark of at least 30% in individual modules amounting to at least 100 credits taken in Part 1.

In order to progress from Part 1 to Part 2, a student must achieve a threshold performance; and

- (iii) obtain a weighted average of at least 40% over all compulsory modules in Mathematics in Part 1 (MA1CA, MA1FM, MA1LA); and
- (iv) obtain a weighted average of at least 40% over all compulsory modules in Economics in Part 1 (EC113, EC114, EC115, EC116); and
- (v) obtain marks below 40%, but at least 30%, in compulsory modules in Economics amounting to not more than 20 credits in Part 1; and
- (vi) obtain marks of at least 30% in 120 credits.

The achievement of a threshold performance at Part 1 qualifies a student for a Certificate of Higher Education if they leave the University before completing the subsequent Part.

Part 2

To gain a threshold performance at Part 2, a student shall normally be required to:

- (i) obtain a weighted average of 40% over 120 credits taken at Part 2; and
- (ii) obtain marks of at least 40% in individual modules amounting to at least 80 credits; and
- (iii) obtain marks of at least 30% in individual modules amounting to at least 120 credits, except that a mark below 30% may be condoned in no more than 20 credits of modules owned by the Department of Mathematics and Statistics.

In order to progress from Part 2 to Part 3 in the **3 year programme**, a student must achieve a threshold performance

In order to progress from Part 2 to Part 3 in the **4 year programme**, a student must achieve a threshold performance and obtain a pass in the professional/workplacement or study abroad year. Students who fail the professional/placement year transfer to the non-placement year version of the programme.

The achievement of a threshold performance at Part 2 qualifies a student for a Diploma of Higher Education if they leave the University before completing the subsequent Part.

Classification

Bachelors' degrees

The University's honours classification scheme is based on the following:

Mark	Interpretation
70% - 100%	First class
60% - 69%	Upper Second class
50% - 59%	Lower Second class
40% - 49%	Third class
35% - 39%	Below Honours Standard
0% - 34%	Fail

The weighting of the Parts/Years in the calculation of the degree classification is:

Three year programmes:

Part 2: one-third

Part 3: two-thirds

Four year programmes, including professional/workplacement or study abroad:

Part 2: one-third

Placement/Study Abroad Year abroad not included in the classification

Part 3: two-thirds

For further information about your Programme please refer to the Programme Handbook and the relevant module descriptions, which are available at <http://www.reading.ac.uk/module/>. The Programme Handbook and the relevant module descriptions do not form part of your Terms and Conditions with the University of Reading.

BSc Mathematics and Economics for students entering Part 1 in session 2023/24

16 June 2022

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