

## Programme Specification

### BSc Mathematics and Psychology

For students entering Part 1 in September 2016

UCAS Code: GC18

UFMAXPY

UFMAXPYPE

**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 Psychology with a Placement Year - 4 years (UCAS Code: GC19)
Accreditation	British Psychological Society Graduate Basis for Chartered Membership

### Programme information and content

The programme aims to provide you with broad based training in modern mathematics and modern psychology, and to produce scientists qualified to apply mathematical techniques to a wide range of psychological problems. It aims to introduce students to the wide range of approaches that constitute modern psychology, and to concepts and evidence within the domains of the subject required for British Psychological Society accreditation. Students have the opportunity to apply their knowledge to chosen areas of interest, increasing their degree of choice and independence as they move through the programme. They are made aware of current research - its methods, applications and unresolved issues - and learn how to evaluate research and carry it out themselves, with staff research expertise providing stimulation, guidance and high-quality laboratory facilities.

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.
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.
	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 Professional Development courses as well as mentoring by a line manager. Actual contact hours will vary according to

	the placement and employer.
Part 3:	Gives you the opportunity to undertake some project work in psychology. Most of your modules will be optional, allowing you to express your preference for certain topics in pure or applied mathematics, and in psychology.

### 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
MA1CA	Calculus	20
MA1FM	Foundations of Mathematics	20
MA1LA	Linear Algebra	20
PY1CG	Cognition and Learning	10
PY1DV	Developmental Psychology	10
PY1IN	Introduction to Neuroscience	10
PY1PC	Perception	10
PY1PR	Psychological Research	20

All modules at Part 1 of the programme are compulsory.

#### Part 2 Modules:

Module	Name	Credits	Level
MA2DE	Differential Equations	20	5
MA2PSM	Professional Skills for Mathematicians	10	5
MA2RA1	Real Analysis I	20	5
PY2CNS	Cognition and Neuroscience	20	5
PY2DSP	Developmental and Social Psychology	20	5
PY2RM	Research Methods and Data Analysis	20	5

Students must select a further 10 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 placement year.

Students may be permitted to undertake a placement 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:**

<b>Module</b>	<b>Name</b>	<b>Credits</b>	<b>Level</b>
MA3VC	Vector Calculus	10	6
PY3P	Project	40	6

Students must take a further 70 credits of optional modules from a list available from the Department of Mathematics and Statistics: 30 credits of which must be Psychology modules.

### **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 2016.

### **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.

### **Placement opportunities**

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.

### **Teaching and learning delivery:**

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

The contact hours for your Programme will be (on average) 408 hours for Part 1, 384 hours for Part 2 and 336 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.

### **Assessment**

Throughout the programme you will complete practical work, either in large groups (Part 1) or in small groups or individually (Part 2 and Part 3 project). Modules are typically assessed by a mixture of coursework and formal examination. Coursework includes essays, project reports, oral and poster presentations, portfolios and weekly continuous assessment questions. 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 at Part 1; and
- (iv) obtain a mark of at least 40% in all compulsory modules in Psychology at Part 1; and
- (iv) 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; and

- (iv) obtain a mark of at least 40% in each of the compulsory modules in Psychology at Part 2.

In order to progress from Part 2 to Part 3 in the 4 year programme, a student must fulfil the above criteria and obtain a pass in the professional/work placement 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.

To be eligible for Honours, students must pass the Project module PY3P.

## **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/work placement 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 Psychology for students entering Part 1 in session 2016/17

20 October 2016

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