Programme Specification

Academic Year 2017-18
BA (Hons) Philosophy and Mathematics;
BA (Hons) Philosophy and Mathematics (with a Year Abroad)

Programme Code: 4109, 5223 (Year Abroad)
This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided.

Awarding Institution	University of Southampton
Teaching Institution	University of Southampton
Mode of study	Full time or Part time is permitted
Duration in years	3 years or 4 years with year abroad
Accreditation details	Not applicable
Final award	Bachelor of Arts (Honours)
Name of award	Philosophy Joint
Interim Exit awards	Certificate of Higher Education; Diploma of Higher Education
FHEQ level of final award	6
UCAS code	VG51 BA Philosophy and Mathematics; VG52 Philosophy and Mathematics (with a Year Abroad)
QAA Subject Benchmark or other external reference	QAA subject benchmark statements for Philosophy and for Mathematics, statistics and operational research
Programme Lead	Dr Jonathan Way
Date specification was written	01/08/2007
Date specification last updated	May 2017

Programme Overview

Both Philosophy and Mathematics develop the ability to reason rigorously, to think clearly, to think abstractly, and to analyse and organise complex ideas – skills much in demand by employers.

Because of these shared attributes, Mathematics has always had a special relationship with philosophy. Some of the greatest mathematicians have been philosophers, and vice versa. A Joint Honours in Mathematics and Philosophy at Southampton enables you to explore that relationship in depth. The flexible programme allows you to design your own path of study by choosing from a wide and varied selection of modules ranging from *Existentialism* to *The Ethics of Belief*, from *Relativity, Black Holes and Cosmology* to *Population Dynamics in Biology*.

Special Features of the programme

You have the opportunity to study abroad for either a semester or a full year as part of this programme. Students on the Year Abroad programme will spend Part Three of their programme at one of the Faculty's partner universities and will continue with Part Four of the curriculum upon return to Southampton in their fourth year. Students who choose to spend a semester abroad will do so in their second year and will continue their Part Two curriculum at the partner university, Part Three of the programme will be completed at Southampton.

All students intending to go abroad are required to take the HUMA2012 preparation module before their departure. For students wishing to go abroad for one semester they will normally complete HUMA2012 during Part One of their programme. For all other students going abroad for a full year they will complete HUM2012 during Part Two of their programme. All students who spend the year abroad are also required to complete HUMA3013 whilst they are away.

Learning and teaching

Our teaching draws upon the cutting-edge research of Southampton's academics, all of whom are actively engaged in presenting and publishing their work in philosophy and mathematics to international audiences.

We place special emphasis on small group teaching. Alongside lectures, you will participate from your first part of study in tutorials and seminars in which you will explore and develop your own ideas in discussion with fellow students and staff.

There are specialist online resources for each module you take and we make use of computer-based learning techniques that build on the knowledge and understanding you acquire in lectures.

Each student is assigned a Personal Academic Tutor, a leading academic who provides help and support at every stage of study.

Throughout your degree, we impart advanced skills in reasoning, research, communication, and analysis, skills which, alongside the support offered by the University's career service, will prepare you for further study or a future career.

Assessment

You will be assessed by more than just essays and exams. Depending on the modules you choose, you will work in teams, give presentations, submit group projects, develop websites, and manage larger research projects such as dissertations. The nature of the assessment task is appropriate to the issues you are studying and the range of tasks allows you to develop the skills you need for further study or the world of work.

Please note: As a research-led University, we undertake a continuous review of our programmes to ensure quality enhancement and to manage our resources. As a result, this programme may be revised during a student's period of registration, however, any revision will be balanced against the requirement that the student should receive the educational service expected. Please read our Disclaimer to see why, when and how changes may be made to a student's programme.

Programmes and major changes to programmes are approved through the University's programme validation process which is described in the University's Quality handbook.

Educational Aims of the Programme

The aims of the programme are to:

- provide you with an understanding of the main views, arguments and positions of major philosophers in the Western tradition.
- introduce you to some of the central theories, problems and arguments concerning topics within core areas of general philosophy (for example, meaning, mind, value, truth, knowledge, existence).
- introduce you to the philosophical study of particular areas of human practice and inquiry (for example, science, mathematics, religion, art, and politics).
- provide you with knowledge and understanding of mathematics.
- enable you to develop advanced mathematical skills.
- provide you with the opportunity to acquire and develop high level competence in problem-solving skills.
- enable you to engage with issues and ideas at the cutting-edge of contemporary research in philosophy and mathematics.

- allow you to appreciate the bearing of your studies in philosophy on your studies in mathematics, and vice versa.
- encourage you to think critically, develop the ability to learn independently and remain receptive to fresh ideas and approaches.
- ensure that you develop the skills and abilities required for further study and/or your future career path.

Programme Learning Outcomes

Knowledge and Understanding

Having successfully completed this programme you will be able to demonstrate knowledge and understanding of:

A1   the views, arguments and positions advanced and explored in the work of key thinkers within Western Philosophy, and the relevance of those views, arguments and positions to contemporary philosophy.

A2   the wide range of techniques of reasoning philosophers employ in analysing, exploring and evaluating ideas and arguments.

A3   the defining problems of the main areas of philosophy and of the interconnections between them as well as of the prominent attempts to resolve those problems.

A4   the philosophical issues concerning particular areas of human practice and inquiry, such as science, mathematics, religion, art and politics.

A5   central concepts, problems and arguments in mathematics.

A6   the application of mathematical methods in such areas as science, technology and business.

A7   ideas at the forefront of current philosophical and mathematical research .

A8   the implications of the issues and techniques you have explored in philosophy for mathematics, and vice versa.

Teaching and Learning Methods

We employ a wide variety of teaching methods and provide a range of opportunities for learning, so as to facilitate a progressively deeper understanding of the subject and foster independent learning. We recognise that arriving students are often unfamiliar with the subject or have had only limited experience of it, and we arrange our teaching provision in that light. Methods include:

- Lectures
  This is an effective way of conveying information concerning the above topics and explaining ideas to students. As your study progresses, the lectures explore the relevant issues in greater depth to reflect and further the development of your knowledge and understanding.
- In-Class Discussion
  This provides an opportunity for students to engage in discussion with peers and to raise questions concerning the material covered in lectures. Sometimes discussion is initiated by student presentations.
- Tutorials
  In Philosophy, these sessions involving small groups of students in their 1st part of study assist students in their early attempts to read, write about and understand philosophical issues. The starting-point for discussion is always the topic of a short essay, which students revise in light of that discussion and individual meetings with the tutor.
  In Mathematics, the tutorials provide opportunities to practice your mathematical techniques in solving problems.
- Seminars

In the 2nd part, students participate in weekly seminars involving 8-10 students. Individual presentations, focused on extracts from key historical texts, initiate student-led discussion of the issues the extracts raise.

- Consultation with academic staff
All academic staff hold 'office hours' during which you can drop in for individual discussion of the ideas and arguments encountered in lectures and your reading, or which you have arrived at yourself.
- Research supervision
In the final part, you will undertake a dissertation (an extended research project) or equivalent piece of work in philosophy or mathematics, supervised by a member of academic staff with expertise in the area it concerns. In preparing the dissertation, you will have the opportunity to meet regularly with the supervisor to explore the issues it concerns, to receive guidance on your research and reading, and to receive feedback on the work as it progresses.
- Independent study
Independent study forms an essential part in the development of your knowledge and understanding. This will involve careful reading of primary and secondary texts, thoughtful reflection on issues raised in those texts or in class, and arriving at your own considered opinions on the topics you are studying.
- Computer-based learning
training in the use of mathematical and statistical software packages.

Assessment methods

We employ a wide variety of tasks which enable you, and staff, to assess your knowledge and understanding of the ideas, techniques and arguments you are studying. Some tasks contribute to the grade you receive and all allow you to be sure that you are working effectively. Written or verbal feedback is available to students on assessment tasks.

Methods of assessment may include:

- Essay
- Exam
- Textual commentaries
- Research proposal
- Individual presentation
- Group presentation
- Group research project
- Dissertation
- Annotated bibliography
- Reflective statement and peer evaluation
- Essay plan

Particular assessment tasks are appropriate to the area of study, and the exact nature of the task is determined by the part at which you are studying. For example, an exam in your first part might involve several questions while an exam in your final part might involve one question, inviting you to examine a single issue in depth and detail. Likewise, with each part of study, you can expect the assessment task to call for more independent study and thinking. For example, in your final part you complete a dissertation or equivalent piece of work, an extended piece of writing on a topic of your choice, which is the product of your own research (guided by a supervisor).

Subject Specific Intellectual and Research Skills

Having successfully completed this programme you will be able to:

B1   interpret complex philosophical texts, including historical texts from a variety of traditions.

B2   identify, evaluate and analyse philosophical problems, positions and arguments.

B3   present and debate philosophical ideas, orally and in writing, in an open-minded, clear and rigorous way.

B4   define and use appropriately the technical terminology employed in the areas of philosophy and mathematics you study.

B5   formulate your own views with respect to various philosophical issues and defend those views with arguments.

B6   adopt an analytic approach problem solving.

B7   abstract and generalise.

B8   develop logical arguments and use skills in deductive and inductive reasoning.

Teaching and Learning Methods

Activities designed to enhance the above skills are integrated into all aspects of teaching in Philosophy and Mathematics (see above). Activities particularly important for the enhancement of your skills in philosophical thinking and research include:

- 1st part Philosophy tutorials, which help students to develop their skills in extracting ideas and arguments from philosophical texts, and presenting and assessing those arguments in writing.
- 1st part Mathematics tutorials, in which you practice mathematical techniques and problem-solving.
- 2nd part seminars, in which students give individual presentations, presenting orally philosophical views and reasoning.
- a compulsory 1st part course in reason and argument, which introduces students to the formal and informal techniques philosophers use in presenting and assessing arguments (see below).
- in-class discussion, in which students express their own views with respect to the issues they are studying, and debate those views with peers.

Assessment methods

We make use of various assessment tasks which are designed to encourage the above skills and give students a chance to demonstrate them (see above). Methods particularly important for the assessment of these skills include:

- essays, which demonstrate your ability to interpret and engage critically with philosophical texts, to construct and develop arguments, and to show your command of the vocabulary philosophers use.
- presentations, which allow us to assess and provide feedback on your ability to express verbally philosophical ideas and positions, including your own.
- the dissertation, should you choose to complete this in philosophy, in which you develop a sustained line of argument of your own and examine philosophical ideas in considerable depth and detail.
- tests in which you apply the mathematical methods you are developing.

Transferable and Generic Skills

Having successfully completed this programme you will be able to:

C1   analyse and present ideas and positions, both orally and in writing.

C2   undertake, with appropriate supervision, independent work.

C3   identify and use appropriate resources.

C4   work effectively to deadlines.

C5   argue effectively and dispassionately.

C6   manage, plan and execute projects.
C7   work effectively in a team.

C8   understand and extract relevant information from complex texts.

C9   apply mathematical methods to problems.

C10   analyse and reason logically.

C11   IT skills

Teaching and Learning Methods

The above skills are imparted in all aspects of teaching and learning in Philosophy and Mathematics. Methods particularly important for developing transferable skills include:

- a compulsory 1st part course in reason and argument, which develops skills in critical thinking.
- library skills sessions, which take place during new students' induction, as well as when embarking on the dissertation or equivalent project, which help students learn how to identify and make use of resources, including online resources.
- seminars, in which students present their own views and those of others verbally.
- tutorials in Philosophy, in which students develop their skills in clearly presenting ideas and arguments in writing.
- tutorials in Mathematics, in which students apply the mathematical methods they have learnt to problems.
- in-class discussion, in which students advance and defend their own positions.

Assessment methods

All assessment tasks are designed in part to encourage and assess the above skills. Methods particularly important for developing transferable skills include:

- group research projects, which require students to work together effectively, to delegate responsibilities, and to manage time.
- dissertations, which require independent study, research skills, time management, and the ability to present complex ideas in writing.
- essays, in which students demonstrate their ability to interpret complex texts, to present their views and those of others in writing, to argue for and against various positions, and to work to a deadline.
- exams, which test your ability to present and debate ideas in writing or to apply mathematical techniques under strict time constraints.
- textual commentaries, which demonstrate your ability to extract key information from difficult texts.
- presentations, which require you to articulate ideas and arguments verbally and in an engaging fashion.

Graduate Attributes

Graduate Attributes are the personal qualities, skills and understanding you can develop during your studies. They include but extend beyond your knowledge of an academic discipline and its technical proficiencies. Graduate Attributes are important because they equip you for the challenge of contributing to your chosen profession and may enable you to take a leading role in shaping the society in which you live.

We offer you the opportunity to develop these attributes through your successful engagement with the learning and teaching of your programme and your active participation in University life. The skills, knowledge and personal qualities that underpin the Graduate Attributes are supported by your discipline. As such, each attribute is enriched, made distinct and expressed through the variety of learning experiences you will experience. Your development of Graduate Attributes presumes basic competencies on entry to the University.

Programme Structure

Programme details

The programme is normally studied over three years full-time. However, it may also be taken on a part-time basis for a period of not less than four and not more than eight academic years. Study is undertaken at three parts (each corresponding to one year of full-time study, excluding study abroad). There are 30 study weeks in each year.

The programme is divided into modules (a course devoted to a topic). Full-time students take eight modules at each part, four in each semester. Single modules have a credit value of 15, while double modules have a credit value of 15 ECTS (30 CATS). Some modules are compulsory, though most are optional. If a module is core, it is compulsory and you must pass it in order to progress to the next part of your degree programme.

You will take at least 22.5 ECTS (45 CATS) (equivalent to three single modules) in both Philosophy and Mathematics at each part. So long as you take any compulsory modules, you make take the remaining credits in either subject area or up to 7.5 ECTS (15 CATS) per semester outside of your subject areas.

The programme is designed to ensure that your learning is progressive. The 1st part is foundational. You will take compulsory modules in which provide you with crucial skills in reasoning, as well as introducing you to core areas of philosophy and the fundamental principles of linear algebra and calculus. In addition, you will take an optional module in philosophy.

This grounding is extended in the second part by one further compulsory module in the history of philosophy, in addition to which you will take seven optional modules investigating the theories, views and arguments advanced and explored in central areas of philosophy, including moral philosophy, aesthetics, epistemology, philosophy of religion and logic. This flexibility allows you to build the course around your developing interests.

In your final part, you have the option to complete a dissertation in philosophy on a topic of your choosing or complete a module on communicating and researching mathematics. You then select the remaining modules from a wide selection. Modules at this part typically concern topics on which academic staff are actively researching and they aim to introduce you to the cutting-edge of research and scholarship.

The modules offered can vary from year to year but the following is a list of those which are typically available. Further information about many of the modules can be found here:
http://www.soton.ac.uk/humanities/undergraduate/courses/philosophy/vg51_philosophy_and_mathematics.page

Opportunity to Study a Minor Subject

The structure of your degree programme allows you to exercise choice in each part of study. You can exercise this choice in a number of ways.

- You can use these modules to deepen your knowledge of your main subjects.
- You can combine additional modules from your main subjects with modules from other disciplines or choose from a selection of interdisciplinary modules.

You can choose modules that build into a minor pathway, the title of which will be mentioned in your degree transcript. Details of the minors available and the modules that are included can be found at www.southampton.ac.uk/cip.

Availability of Modules

The information contained in programme specification is correct at the time it was published. Typically, around a quarter of optional modules do not run due to low interest or unanticipated changes in staff availability. If we do have insufficient numbers of students interested in an optional module, this may not be offered. If an optional module will not be run, we will advise you as soon as possible and help you choose an alternative module.

Part 1

Compulsory modules		
PHIL1002	Knowledge and Mind	7.5 ECTS (15 CATS)
PHIL1005	Ethics	7.5 ECTS (15 CATS)
PHIL1016	Reason and Argument	7.5 ECTS (15 CATS)
MATH1048	Linear Algebra I	7.5 ECTS (15 CATS)
MATH1059	Calculus	7.5 ECTS (15 CATS)
MATH1060	Multivariable Calculus	7.5 ECTS (15 CATS)
Optional modules		
PHIL1003	Ancient Greek Philosophy	7.5 ECTS (15 CATS)
PHIL1021	Existentialism and its Origins	7.5 ECTS (15 CATS)
PHIL1026	Applied Ethics	7.5 ECTS (15 CATS)
PHIL1027	Freedom and Responsibility	7.5 ECTS (15 CATS)
MATH1049	Linear Algebra II	7.5 ECTS (15 CATS)
MATH1057	Dynamics and Relativity	7.5 ECTS (15 CATS)
MATH1058	Operational Research I and Mathematical Computing	7.5 ECTS (15 CATS)

(Certificate of Higher Education, 60 ECTS (120 CATS))

Exit Award: Certificate of Higher Education

Part 2

Compulsory modules		Credits
PHIL2028	Appearance and Reality	7.5 ECTS (15 CATS)
MATH1024	Introduction to Probability and Statistics	7.5 ECTS (15 CATS)
MATH1052	Differential Equations	7.5 ECTS (15 CATS)
MATH2038	Partial Differential Equations	7.5 ECTS (15 CATS)
MATH2039	Analysis	7.5 ECTS (15 CATS)
Core modules		Credits
HUMA2012	Study Abroad (For students taking a Year Abroad only)	Pass/Fail (non-credit bearing)
Optional modules		
PHIL2001	Aesthetics	7.5 ECTS (15 CATS)
PHIL2014	Logic	7.5 ECTS (15 CATS)
PHIL2027	Kant	7.5 ECTS (15 CATS)
PHIL2032	Metaphysics	7.5 ECTS (15 CATS)
PHIL2034	Philosophy of Science	7.5 ECTS (15 CATS)
PHIL2036	Continental Philosophy	7.5 ECTS (15 CATS)
PHIL2039	Ethics of Global Poverty	7.5 ECTS (15 CATS)
PAIR2002	Political Thinkers	7.5 ECTS (15 CATS)
MATH1049	Linear Algebra II	7.5 ECTS (15 CATS)
MATH2044	Applications of Vector Calculus	7.5 ECTS (15 CATS)
MATH2049	Geometry and Topology	7.5 ECTS (15 CATS)

(Diploma of Higher Education, 120 ECTS (240 CATS (120)

Exit Award: Diploma of Higher Education

Part 3 (Year Abroad)

Students will spend the year abroad in a country where the chosen language is spoken, either as:

- studying on a University course
- on an approved work placement

During the year abroad students are required to complete a Year Abroad Report (HUMA3013). This is assessed on a pass/fail basis.

Part 4

Compulsory modules		Credits
PHIL3013	Dissertation in Philosophy OR	30 CATS (15 ECTS)
MATH3032	Communicating and Researching Mathematics	7.5 ECTS (15 CATS)
Optional modules		**Credits**
PHIL3007	Nietzsche	7.5 ECTS (15 CATS)
PHIL3009	Heidegger	7.5 ECTS (15 CATS)
PHIL3011	Kierkegaard	7.5 ECTS (15 CATS)
PHIL3020	Philosophy of Mathematics	7.5 ECTS (15 CATS)
PHIL3034	Philosophy of Sex	7.5 ECTS (15 CATS)
PHIL3037	Wittgenstein's Later Philosophy	7.5 ECTS (15 CATS)
PHIL3041	Happiness and Well-Being	7.5 ECTS (15 CATS)
PHIL3038	The Ethics of Belief	7.5 ECTS (15 CATS)
PHIL3042	Fiction and Fictionalism	7.5 ECTS (15 CATS)
PHIL3047	Schopenhauer	7.5 ECTS (15 CATS)
PHIL3048	Scepticism	7.5 ECTS (15 CATS)
PHIL3049	Puzzles and Paradoxes	7.5 ECTS (15 CATS)
PHIL3050	Advanced Aesthetics: Aesthetic Creativity	7.5 ECTS (15 CATS)
PHIL3051	Other Minds	7.5 ECTS (15 CATS)
PAIR3015	Contemporary Theories of Justice	7.5 ECTS (15 CATS)
MATH2013	Introduction to Operation Research	7.5 ECTS (15 CATS)
MATH2045	Vector Calculus and Complex Variable Theory	7.5 ECTS (15 CATS)
MATH3006	Relativity, Black Holes and Cosmology	7.5 ECTS (15 CATS)
MATH3016	Optimization	7.5 ECTS (15 CATS)
MATH3018	Numerical Methods	7.5 ECTS (15 CATS)
MATH3031	Mathematics Project	7.5 ECTS (15 CATS)
MATH3032	Communicating and Researching Mathematics*	7.5 ECTS (15 CATS)
MATH3033	Graph Theory	7.5 ECTS (15 CATS)
MATH3052	Mathematical Population Dynamics in Biology	7.5 ECTS (15 CATS)
MATH3076	Hilbert Spaces	7.5 ECTS (15 CATS)
MATH3081	Operational Research	7.5 ECTS (15 CATS)
MATH3083	Advanced Partial Differential Equations	7.5 ECTS (15 CATS)

*You must take at least one of PHIL3013 and MATH3032.

[BA (Hons) degree, 180 ECTS (360 CATS)]

Exit Award: Conferment of award/graduation

Additional Costs

Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, reports and dissertations as are required to fulfil the academic requirements for each programme of study. Costs that students registered for this programme typically also have to pay for are included in Appendix 2.

Progression Requirements

The programme follows the University's regulations for ***Progression, Determination and Classification of Results: Undergraduate and Integrated Masters Programmes*** and the ***Academic Regulations for the Faculty of Humanities*** as set out in the University Calendar: http://www.calendar.soton.ac.uk
Please see Section *Bachelor of Arts (Hons)/Bachelor of Science (Hons) - Non-Modern Language Programmes*

Intermediate exit points

You will be eligible for an interim exit award if you complete part of the programme but not all of it, as follows:

Qualification	Minimum overall credit in ECTS credits	Minimum ECTS Credits required at level of award
Diploma of Higher Education	at least 120	45
Certificate of HE	at least 60	45

Support for student learning

There are facilities and services to support your learning some of which are accessible to students across the University and some of which will be geared more particularly to students in your particular Faculty or discipline area.

The University provides:

- library resources, including e-books, on-line journals and databases, which are comprehensive and up-to-date; together with assistance from Library staff to enable you to make the best use of these resources.
- high speed access to online electronic learning resources on the Internet from dedicated PC Workstations onsite and from your own devices; laptops, smartphones and tablet PCs via the Eduroam wireless network. There is a wide range of application software available from the Student Public Workstations.
- computer accounts which will connect you to a number of learning technologies for example, the Blackboard virtual learning environment (which facilitates online learning and access to specific learning resources).
- standard ICT tools such as Email, secure filestore and calendars.
- access to key information through the MySouthampton Student Mobile Portal which delivers timetables, Module information, Locations, Tutor details, Library account, bus timetables etc. while you are on the move.
- IT support through a comprehensive website, telephone and online ticketed support and a dedicated helpdesk in the Student Services Centre.
- Enabling Services offering assessment and support facilities (including specialist IT support) if you have a disability, dyslexia, mental health issue or specific learning difficulties.
- the Student Services Centre (SSC) to assist you with a range of general enquiries including financial matters, accommodation, exams, graduation, student visas, ID cards.
- Career Destinations, advising on job search, applications, interviews, paid work, volunteering and internship opportunities and getting the most out of your extra-curricular activities alongside your degree programme when writing your CV.
- a range of personal support services : mentoring, counselling, residence support service, chaplaincy, health service.
- a Centre for Language Study, providing assistance in the development of English language and study skills for non-native speakers.

The Students' Union provides:

- an academic student representation system, consisting of Course Representatives, Academic Presidents, Faculty Officers and the Vice-President Education; Student's Union provides training and support for all these representatives, whose role is to represent students' views to the University.
- opportunities for extracurricular activities and volunteering.
- an Advice Centre offering free and confidential advice including support if you need to make an academic appeal.
- support for student peer-to-peer groups, such as Nightline.

Associated with your programme you will be able to access:

- an Personal Academic Tutor, i.e. a member of academic staff to provide personalised academic advise and support.
- a study abroad co-ordinator.
- a careers tutor.
- guidelines on assessment tasks.
- student mentors.
- a special considerations tutor.

Methods for evaluating the quality of teaching and learning

You will have the opportunity to have your say on the quality of the programme in the following ways:

- Completing student evaluation questionnaires for each module of the programme
- Acting as a student representative on various committees, e.g. Staff:Student Liaison Committees, Faculty Programmes Committee OR providing comments to your student representative to feed back on your behalf.
- Serving as a student representative on Faculty Scrutiny Groups for programme validation
- Taking part in programme validation meetings by joining a panel of students to meet with the Faculty Scrutiny Group

The ways in which the quality of your programme is checked, both inside and outside the University, are:

- Regular module and programme reports which are monitored by the Faculty
- Programme validation, normally every five years.
- External examiners, who produce an annual report
- A national Research Assessment Exercise (our research activity contributes directly to the quality of your learning experience)Higher Education Review by the Quality Assurance Agency

Criteria for admission

University Commitment

The University will at all times seek to operate admissions regulations that are fair and are in accordance with the law of the United Kingdom, and the University's Charter, Statutes, Ordinances and Regulations.

This includes specific compliance with legislation relating to discrimination (e.g. Equality Act 2010) and the University's Equal Opportunities Policy Statement. This includes a commitment that the University will:

- actively assist groups that experience disadvantage in education and employment to benefit from belonging to the University
- actively seek to widen participation to enable students that do not traditionally participate in Higher Education to do so;
- ensure that admission procedures select students fairly and appropriately according to their academic ability and that the procedure is monitored and regularly reviewed.

The University's Admissions Policy applies equally to all programmes of study. The following are the typical entry criteria to be used for selecting candidates for admission. The University's approved equivalencies for the requirements listed below will also be acceptable.

Undergraduate programmes

Qualification	Grades	Subjects required	Subjects not accepted	EPQ Alternative offer (if applicable)	Contextual Alternative offer (if applicable)
GCE A level	AAB-ABB	A in Mathematics	General Studies	Applicants taking the Extended Project Qualification (EPQ) will also be made an alternative offer one grade below the standard offer, conditional on an A grade in the EPQ.	Humanities supports contextual admission. A typical offer for an applicant qualifying as contextual is ABB from 3 A levels including Grade A in Mathematics or the equivalent from alternative qualifications.

Mature applicants
Studying for a degree later in life can be extremely rewarding and mature students are often among our most successful.

If you are over 21 and feel you would benefit from degree-level studies, we can be more flexible about our entry requirements. For full-time courses, selectors will expect you to demonstrate your commitment by means of some recent serious study, for example, one or two A level passes, successful completion of an Open University foundation course or an appropriate Access course. Your application will be considered on individual merit and you may be asked to attend an interview.

More information on the entry requirements for BA Philosophy and Mathematics can be found on the Philosophy webpage here:
http://www.southampton.ac.uk/humanities/undergraduate/courses/philosophy/vg51_philosophy_and_mathematics.page

For further information, please contact our Admissions Team: UGapply.FH@southampton.ac.uk

The University's Admission policy is available at
http://www.southampton.ac.uk/studentadmin/admissions/admissionspolicies/policy/

Recognition of Prior Learning (RPL)
The University has a **Recognition of Prior Learning Policy**
Students are accepted under the University's recognition of prior learning policy; however, each case will be reviewed on an individual basis.

English Language Proficiency

Overall	Reading	Writing	Speaking	Listening
6.5	6.5	6.5	6.0	6.0

Career Opportunities

What can you do with a Philosophy and Mathematics degree? Almost anything! That's because Philosophy and Mathematics teach you not what to think, but how to think. This is, as a *Times* report on Philosophy put it, "the ultimate transferable work skill".

Our students have gone on to succeed in a dazzling range of careers, including business, law, medicine, journalism, teaching, IT, the civil service, advertising, film and television, and finance. The 2013 Destination of Leavers of Higher Education (DLHE) survey found that **100%** of our Philosophy and Mathematics graduates were in work or study six months after finishing their degree, with **100%** of those in full-time employment occupying professional or managerial roles.

Career skills are embedded throughout every stage of our course and are developed at every moment of study. Certain modules offer specific teaching in reasoning and communications skills. In addition, there are work experience opportunities to help you understand how your transferable skills apply in the workplace. The university's Excel placement scheme offers around 150 Christmas, Easter and summer placements in a range of companies.

External Examiners(s) for the programme

Professor Jonathan Webber   Institution: University of Cardiff

Students must not contact External Examiner(s) directly, and external examiners have been advised to refer any such communications back to the University. Students should raise any general queries about the assessment and examination process for the programme with their Course Representative, for consideration through Staff: Student Liaison Committee in the first instance, and Student representatives on Staff: Student Liaison Committees will have the opportunity to consider external examiners' reports as part of the University's quality assurance process.

External examiners do not have a direct role in determining results for individual students, and students wishing to discuss their own performance in assessment should contact their personal tutor in the first instance.

Please note: This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided. More detailed information can be found in the programme handbook or online at:
http://www.soton.ac.uk/philosophy/undergraduate/index.page

Appendix:

Learning outcomes and Assessment Mapping document template

For Joint Honours programmes, the learning outcomes of the second subjects map to their respective learning outcomes, as stated in the single honours programme specifications.

Module Code	Module Title	Knowledge and Understanding								Subject Specific Intellectual Skills							
		A1	A2	A3	A4	A5	A6	A7	A8	B1	B2	B3	B4	B5	B6	B7	B8
PHIL1002	Knowledge and Mind (compulsory)	•	•	•	•				•	•	•	•	•	•	•	•	
PHIL1005	Ethics (compulsory)	•	•	•	•					•	•	•	•	•	•	•	
PHIL1016	Reason and Argument (compulsory)	•	•							•	•	•	•	•	•	•	•
PHIL2028	Appearance and Reality (compulsory)	•	•	•	•					•	•	•	•	•	•	•	
PHIL3013*	Dissertation (*compulsory unless take in other discipline)	•	•	•	•			•		•	•	•	•	•	•	•	
MATH1048	Linear Algebra I (Compulsory)					•							•		•	•	•
MATH1059	Calculus					•							•		•	•	•
MATH1060	Multivariable Calculus					•							•		•	•	•
MATH1024	Introduction to Probability and Statistics (Compulsory)					•	•						•		•	•	•
MATH1052	Differential Equations (Compulsory)					•							•		•	•	•
MATH2038	Partial Differential Equations (Compulsory)					•							•		•	•	•
MATH2039	Analysis (Compulsory)					•	•	•					•		•	•	•
MATH3032	Communicating and Researching Mathematics (*compulsory unless take in other discipline)					•		•					•		•	•	•

Module Code	Module Title	Transferable/Key Skills										
		C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
PHIL1002	Knowledge and Mind (compulsory)	•	•	•	•	•		•	•		•	•
PHIL1005	Ethics (compulsory)	•	•	•	•	•		•	•		•	•
PHIL1016	Reason and Argument (compulsory)	•	•	•	•	•			•		•	•
PHIL2028	The Rise of Modern Philosophy: Empiricism (compulsory)	•	•	•	•	•		•	•		•	•
PHIL3013*	Dissertation (*compulsory unless take in other discipline)	•	•	•	•	•	•		•		•	•
MATH1048	Linear Algebra I (Compulsory)	•	•	•	•	•				•	•	•
MATH1059	Calculus	•	•	•	•	•				•	•	•
MATH1060	Multivariable Calculus	•	•	•	•	•				•	•	•
MATH1024	Introduction to Probability and Statistics (Compulsory)	•	•	•	•	•				•	•	•
MATH1052	Differential Equations (Compulsory)	•	•	•	•	•				•	•	•
MATH2038	Partial Differential Equations (Compulsory)	•	•	•	•	•				•	•	•
MATH2039	Analysis (Compulsory)	•	•	•	•	•				•	•	•
MATH3032	Communicating and Researching Mathematics (*compulsory unless take in other discipline)	•	•	•	•	•	•	•		•	•	•

Module Code	Module Title	Coursework 1	Coursework 2	Exam
PHIL1002	Knowledge and Mind (compulsory)	3 x 1000 word essays **100%**	n/a	n/a
PHIL1005	Ethics (compulsory)	3 x 1000 word essays **100%**	n/a	n/a
PHIL1016	Reason and Argument (compulsory)	n/a	n/a	1 x 2 hour exam **100%**
PHIL2028	Appearance and Reality (compulsory)	1 x 10 minute presentation **20%** 9 x Take home tests **20%**	1 x 2,000 word essay **60%**	n/a
PHIL3013*	Dissertation (compulsory unless taken in another discipline)	1 x 1500 word written response to a structured, directive question. **15%**	Final 8000 word dissertation **85%**	
MATH1048	Linear Algebra I (Compulsory)	Coursework **20%**	Class Test **10%**	Exam **70%**
MATH1059	Calculus			
MATH1060	Multivariable Calculus			
MATH1024	Introduction to Probability and Statistics (Compulsory)	Short report of an experiment and analysis of the data 10% Coursework based on marked weekly problem sheets 10% **Total: 20%**	Class Test **10%**	Exam **70%**
MATH1052	Differential Equations (Compulsory)	Coursework **20%**	Class Test **10%**	Exam **70%**
MATH2038	Partial Differential Equations (Compulsory)	Coursework and class tests **20%**	n/a	Exam **80%**
MATH2039	Analysis (Compulsory)	Coursework **10%**	Class Test **10%**	Exam **80%**
MATH3032	Communicating and Researching Mathematics (*compulsory unless take in other discipline)	Oral Presentation **15%**	Coursework – Individual report 60% Coursework – written group project 25% **Total: 85%**	n/a

* Students will undertake a compulsory dissertation or equivalent from either Academic Unit that make up their combined programme.

Appendix 2:

Additional Costs

Students are responsible for meeting the cost of essential textbooks, and of producing such essays, assignments, laboratory reports and dissertations as are required to fulfil the academic requirements for each programme of study. In addition to this, students registered for this programme typically also have to pay for:

- Books and Stationery Equipment (such as Lab equipment, Field Equipment, Art equipment, Recording Equipment, stethoscopes, fob watch, Excavation equipment, Approved Calculators)
- Materials (such as laboratory materials, textbooks, drawing paper, fabric, thread, computer disks, Sheet Music)
- Software Licenses
- Clothing (such as Protective Clothing, Lab Coats, specific shoes and trousers)
- Printing and Photocopying Costs (such as Printing coursework for submission, Printing and binding dissertations or theses, Academic Poster (A1) printing).
- Typing Costs
- Field Trips (including accommodation costs for the field trips)
- Work Experience and Placements (including accommodation costs near the placement, additional insurance costs)
- Travel Costs for placements, field trips and to and from the University and various campus locations (including travel insurance).
- Paying for immunisation and vaccination costs before being allowed to attend placements.
- Obtaining Disclosure and Barring Certificates or Clearance Subsistence Costs
- Paying for a Music accompanist
- Translation of birth certificates (for programmes abroad)
- Conference expenses
- Professional exams
- Parking costs (including on placements at hospitals)
- Replacing lost student ID cards
- Other activities (e.g. visiting specialist marine stations and other institutions)
- Costs of attending a graduation ceremony (e.g. hiring a gown for graduation).

In some cases you'll be able to choose modules (which may have different costs associated with that module) which will change the overall cost of a programme to you. Details of such costs will be listed in the Module Profile. Please also ensure you read the section on additional costs in the University's Fees, Charges and Expenses Regulations in the University Calendar available at www.calendar.soton.ac.uk.