

## Programme Specification

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### MSc Statistics with Applications in Medicine: 2016-17

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
Accreditation details	None applicable (Accreditation by the Royal Statistical Society will be sought in the academic year 2015/16)
Mode of Study	Full time & part time
Duration in months	Full time: 12 months following standard progression for a FT student Part time: 27 months following standard progression for a PT student
Final award	Master of Science
Name of award	Statistics with Applications in Medicine
Interim Exit awards	Postgraduate Certificate, Postgraduate Diploma
FHEQ level of final award	Level 7
UCAS code	Not applicable
QAA Subject Benchmark or other external reference	Mathematics, Statistics, and Operational Research
Programme Co-ordinator	Dr Stefanie Biedermann
Date specification was written	09/04/2014
Date Programme was validated	2013/14
Date specification last updated	14/12/2016

### Programme Overview

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#### Brief outline of the programme

An MSc is generally accepted as being highly desirable for starting and developing a career in Medical Statistics. The MSc in Statistics with Applications in Medicine is also an excellent preparation for embarking on a PhD project in Statistics or Medical Statistics.

The MSc project is undertaken on completion of the taught component of the programme. It may be in applied or theoretical statistics, and may be related to a medical study or any other area of application. It consists of an individual investigation lasting for three months over the summer period, under the supervision of a member of staff, either within Mathematics or in one of the other related departments. This project enables students to integrate and consolidate skills learned on the programme and may involve the application of statistical analyses to real-life problems.

A dissertation on the project work must be submitted soon after the end of the period of study and students are required to complete their work by the middle of September. The award of the degree of MSc in Statistics with Applications in Medicine requires a satisfactory performance in the instructional part of the course and the project.

#### Learning and teaching

The full-time MSc is completed over a 12-month period. There are two semesters of taught material, which account for 60 ECTS (120 CATS) points, followed by the MSc project in summer, which accounts for 30 ECTS (60 CATS) points.

The structure of the programme allows students to select several optional modules from a broad range of topics in Semester 2. There is also a regular seminar series, with speakers from a variety of companies and organisations providing an appreciation of the developments in and use of Medical Statistics in practice. These are complemented by careers talks and presentations on employability skills.

You will be provided with training and education in the theory and methods of Applied Statistics, with an emphasis on practical problems arising in the context of collecting and analysing medical data. Several modules

are delivered by Medical Statisticians, who can provide data and case studies from their own day to day work at Southampton General Hospital and the Medical Research Council Lifecourse Epidemiology Unit. While studying for your degree, you will develop key transferrable skills, such as written and oral communication, the use of and some programming in Statistical software, time management, and basic research skills.

In summary, the learning and teaching aims of the programme are:

1. To give students knowledge of applied statistical theory and methods at an advanced level;
2. To train students for careers as applied statisticians, particularly in areas related to medicine;
3. To enable students to develop oral and written communication skills;
4. To give students experience of applications of statistical methods.

## Assessment

The taught component of the programme comprises the two semesters of taught material, with assessment via coursework assignments and examinations, which take place at the end of each semester. The MSc programme is completed with a project lasting over 3 months.

By the end of the programme the students should be able to demonstrate:

1. Knowledge and understanding of statistical theory;
2. Knowledge and understanding of the application of statistical methods to practical problems;
3. The ability to carry out and interpret statistical analyses;
4. The ability to write a statistical report on a data analysis topic;
5. The ability to discuss and communicate statistical ideas orally and in written form;
6. The ability to programme in SAS and R to analyse data sets
7. An in-depth knowledge and understanding of an individually researched topic studied as the main project;
8. Skill in organising their research work and in presenting their findings by the production of a substantial dissertation on their chosen project topic.

**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

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The aims of the programme are to:

1. Train you in the theory and methods of applied statistics to an advanced level;
2. Introduce you to the main statistical techniques, methods and approaches used in a variety of applications, particularly in medical research;
3. Offer you the opportunity to study more specialised topics selected from a range of options, but within a coherent framework;
4. Develop your statistical skills for problem solving, including modelling using generalised linear modelling techniques;
5. Give you the opportunity of gaining practical experience of applying the problem-solving skills you have learned, by working on an individual research project;
6. Develop key transferable skills, including personal organisation, teamwork, retrieving information, report writing and oral communication;
7. Prepare you for a career as an applied statistician, particularly in medically related areas such as the pharmaceutical industry or medical research.

## Programme Learning Outcomes

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### Knowledge and Understanding

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

- A.1 Statistical theory at an advanced level,
- A.2 The application of statistical methods to practical problems in new or unfamiliar environments,
- A.3 Statistical modelling techniques used in the analysis of statistical data,

- A.4 The principles of design and analysis of experiments and advanced applications,
- A.5 The techniques used in the analysis of special kinds of data such as survival and multi-level data,
- A.6 The role of statistical inference in the scientific approach,
- A.7 The role of statistical methods in epidemiological and clinical research,
- A.8 The major statistical analysis packages such as SAS, R, and Stata,
- A.9 An individual research topic.

### ***Teaching and Learning Methods***

Acquisition of knowledge and understanding is through structured exposition based on lectures (1 - 8), computer workshops (2, 3, 8), tutorials (1, 2, 5, 6), seminars (2, 4, 7), group work (2), private study (1 - 9) and a supervised project (9).

### ***Assessment Methods***

Every module is assessed, either by an examination or coursework, or a combination of both. Some of the coursework requires the use of specialist statistical software to solve problems and to build models. Other key requirements are to write reports and to give oral presentations.

Examinations will primarily assess learning outcomes 1, 3, 4, and 6, coursework will primarily assess 2, 3, 4, 5, 7, and 8), and the dissertation will assess 9.

## **Subject Specific Intellectual and Research Skills**

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Having successfully completed this programme you will be able to:

- B.1 Synthesise various statistical techniques to carry out and interpret statistical analyses,
- B.2 Design a statistical experiment and conduct the appropriate analysis in new or unfamiliar environments,
- B.3 Write a statistical report on a data analysis topic, clearly giving your conclusions and the rationale for your approach,
- B.4 Discuss and communicate statistical ideas orally and in written form to specialist and non-specialist audiences,
- B.5 Critically assess the use of particular statistical techniques in practice,
- B.6 Synthesise relevant materials acquired from the library and internet,
- B.7 Use computer packages to carry out a large variety of statistical data analysis techniques.

### ***Teaching and Learning Methods***

The use of statistical models and their interpretation is fundamental to statistical methodology, and this is emphasised throughout the teaching and learning experience. Computer work is an integral part of the programme and enters in several modules in different ways. Specialist computer packages are used with an emphasis on SAS and R, which are the main systems that an applied statistician would be expected to use. These subject specific skills are covered in lectures (1 - 7), computer workshops (1, 2, 3, 5, 7), tutorials (4, 5), seminars (6) and group work (1, 3, 4).

### ***Assessment Methods***

Examinations (1, 2, 5), coursework (1 - 7), oral presentations (4, 6), and dissertation (1, 3, 5, 6).

## **Transferable and Generic Skills**

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Having successfully completed this programme you will be able to:

- C.1 Present the results of your work in written reports to specialist and non-specialist audiences,
- C.2 Present the results of your work by means of oral presentations,
- C.3 Identify and use library and bibliographic resources relevant to your work,
- C.4 Manage an individual research project,
- C.5 Programme in sas and r to analyse data sets,
- C.6 Organise your research work and the presentation of statistical findings by the production of a substantial dissertation on an individual research topic,
- C.7 Contribute confidently and appropriately to discussion.

### ***Teaching and Learning Methods***

Lectures (1, 2, 3, 5), tutorials (2), seminars (3, 7), workshops (1, 2, 5) and supervised research (4, 6).

### ***Assessment Methods***

Coursework (1, 5), oral presentations (2) and dissertation (1, 2, 3, 4, 5, 6).

## Programme Structure

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### *Typical programme content*

Statistics is concerned with decision-making in the face of uncertainty, and lies at the heart of the type of quantitative reasoning necessary for making important advances in Medicine. Medical researchers are facing many challenges, including the quest for a cure for dementia or cancer. Without Statistics it would be impossible for them to make informed decisions on the efficacy of a new treatment.

You will be provided with training and education in a variety of techniques, methods and approaches of Statistics, and in their application to practical problems arising in a medical context. The programme structure allows you to select options ranging from the more theoretical aspects of Statistics, including a module on research topics, to those which cover material focussed on practical applications of Statistics in a clinical setting. This is complemented by modules on research skills, a Statistical seminar series providing insight into the role of Medical Statisticians in various different careers (which also gives opportunities for networking with the speakers), and several presentations on transferrable skills by the University Careers Destination Team. The Statistical seminar series has a module code (MATH6026 and MATH6028 in semesters 1 and 2, respectively), but is not assessed, and thus does not contribute to ECTS/CATS credits.

The dissertation will provide an opportunity to study a topic of your choice more deeply. Some projects are provided by pharmaceutical companies, while others are set and supervised by Medical Statisticians at the General Hospital here in Southampton to give you first-hand experience of their work. There will also be a broad range of further Statistical topics available. Within approximately 4 weeks of starting your dissertation, you will give a short presentation on your results so far, and your planned future work, to your peers and the dissertation supervisors. The dissertation coordinator will provide written feedback on your presentation. This is also a good opportunity to get input from members of staff/your peers on your work at an early stage.

### *Special features of the programme*

We are seeking accreditation from the Royal Statistical Society for this programme.

### *Programme details*

The structure of the programme and the modules currently offered are set out below. Of the modules shown against each year of your programme, some are compulsory (i.e. enrolment is automatic) and others are optional. Against each year, you are directed to which modules are compulsory and which are optional. The optional modules listed constitute an indicative list. There will always be choice but the options might vary between years. A complete list of optional modules currently available on your programme can be found via the Student Record Self-Service system ([https://studentrecords.soton.ac.uk/BNNRPROD/bwkkspgr.showpage?page=ESC\\_PROGCAT\\_FINDPR](https://studentrecords.soton.ac.uk/BNNRPROD/bwkkspgr.showpage?page=ESC_PROGCAT_FINDPR)).

A flexible and inclusive approach to learning and teaching will enable any student who meets the entry requirements to access the curriculum and demonstrate achievement of all the intended learning outcomes. This approach should minimise the need for individual alternations to be made for students with particular learning needs.

The programme is normally studied over 12 months full-time (or 27 months part-time). The taught component of the programme consists of 30 study weeks divided into two semesters during which time students study 60 ECTS/120 CATS. Students then undertake a three-month period of supervised research for a Master's dissertation (six months for part-time students) at a value of 30 ECTS/60 CATS.

## **Full-Time Structure**

**PART 1 FULL TIME (60 ECTS/120 CATS)**  
(ECTS/CATS points for each module are given in brackets)

Core

MATH6153 Statistical Theory and Linear Models (10/20)

MATH6152 Statistical Computing (5/10)

Compulsory

MATH6021 Survival Analysis (3.75/7.5)

MATH6151 Clinical Trials (3.75/7.5)

MATH6027 Design of Experiments (7.5/15)

MATH6033 Epidemiological Methods (3.75/7.5)

MATH6026 Statistical Seminar Series I (0/0)

MATH6028 Statistical Seminar Series II (0/0)

STAT6083 Generalised Linear Models (10/20)

STAT6099 Research Skills (5/10)

Optional from within the Faculty

MATH6025 Bayesian Methods (3.75/7.5)

MATH6068 Statistical Genetics (3.75/7.5)

MATH6135 Topics in Statistics (7.5/15)

MATH6157 Applied Statistical Modelling (7.5/15)

STAT6079 Computer Intensive Statistical Methods (5/10)

STAT6084 Multivariate Analysis (5/10)

STAT6086 Survey Methods I (5/10)

STAT6108 Modelling Hierarchical (Multi-level and Longitudinal)  
Data (5/10)

Optional from outside the Faculty (including CIP modules)

N/A

**PASS**

**PART 2 (30 ECTS/60 CATS)**

Core

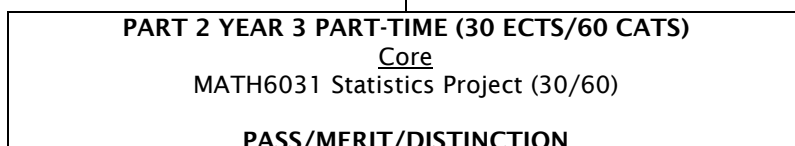
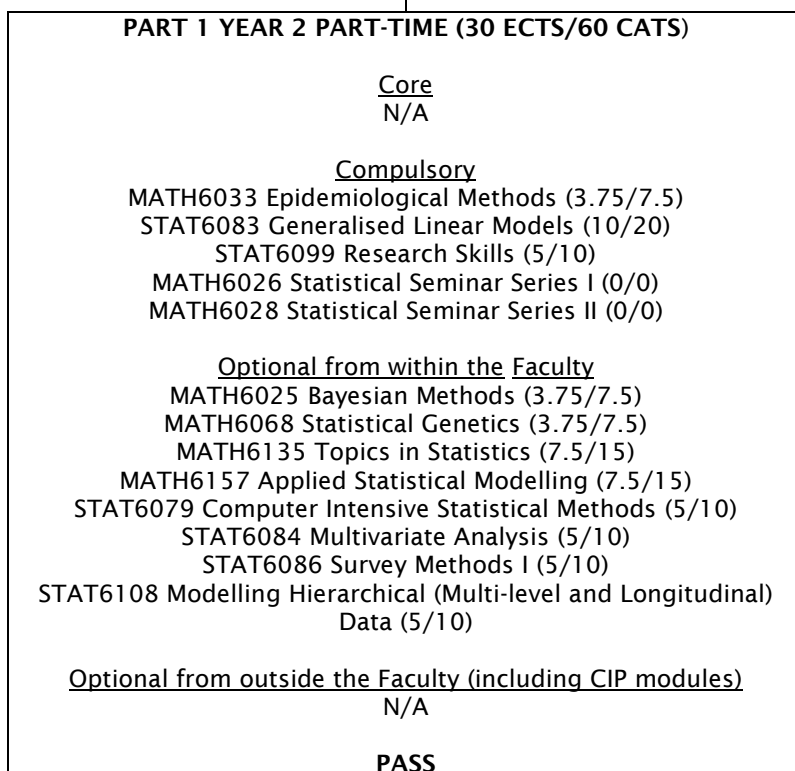
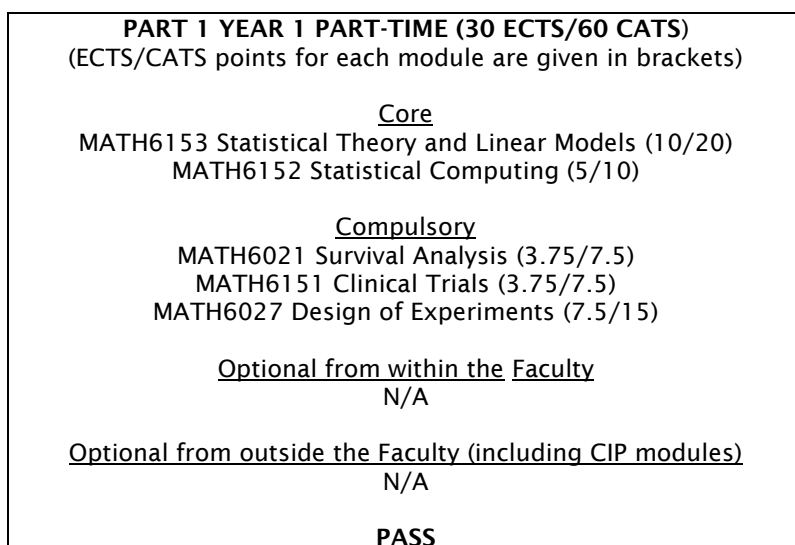
MATH6031 Statistics Project (30/60)

**PASS/MERIT/DISTINCTION**

Conferment of  
Award/Graduation

## Part-Time Structure

(order may be changed with the permission of the programme coordinator)



Conferment of  
Award/Graduation

## 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. 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: Standalone Masters Programmes](http://www.calendar.soton.ac.uk/sectionIV/progression-regs-standalonemasters.html) as set out in the University Calendar (<http://www.calendar.soton.ac.uk/sectionIV/progression-regs-standalonemasters.html>).

Students, who fail one (both) core module(s) in Semester 1, and whose extent of failure does not trigger a repeat year at the end of Semester 1, will be referred in this module (these modules) in Semester 2.

## Intermediate exit points (where available)

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/CATS	Minimum ECTS credits required at level of award
Postgraduate Diploma	at least 60/120	45/90
Postgraduate Certificate	at least 30/60	20/40

## Support for Student Learning

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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 student owned 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 account for students which connects them 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 their timetables, Module information, Locations, Tutor details, Library account, bus timetables etc. To them whilst 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 (including specialist IT support) facilities if you have a disability, dyslexia, mental health issue or specific learning difficulties
- The Student Services Centre (SSC) assisting students 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 Programme Representatives, Academic Presidents, Faculty Officers and the Vice-President Education; SUSU 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 for students making academic appeals
- Support for student peer-to-peer groups, such as Nightline.

Associated with your programme you will be able to access:

- Module co-ordinators support. Module co-ordinators will be available at designated times during the week to discuss issues related to the particular modules you are studying at the time. This will be in addition to class contact time.
- Academic/personal tutor. As soon as you register on this programme, you will be allocated a personal tutor. S/he is a member of the academic team and will be available to discuss general academic issues related to the programme as well as offer advice and support on any personal issues which may affect your studies. In addition, your programme co-ordinator will act as a “senior tutor”.
- Module handbooks/outlines. These will be available at the start of each module (often in online format). The Handbook includes the aims and learning outcomes of the module, the methods of assessment and relevant background material to the module together with appropriate reading lists.
- Within the Faculty, administrative support is provided by your Student Office which deals with student records and related issues and with queries related to your specific degree programme.

## Methods for evaluating the quality of teaching and learning

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

- Completing student surveys 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
- Accreditation by the Royal Statistical Society (currently being applied for)
- A national Research Excellence Framework (our research activity contributes directly to the quality of your learning experience)
- Institutional Review by the Quality Assurance Agency

Changes to the programme (or individual modules) as a consequence of internal/external checking will be communicated to students in the following ways:

- Student representatives will feed back changes decided in committees. We will in addition announce changes agreed in Staff-Student liaison group on the notice board in the students’ study room.
- The annual module report, the latest programme review, and the minutes of Staff-Student liaison group and Mathematics Programmes Board (which also include the External Examiners’ reports) are public to students.
- Mathematical Sciences is running a feedback scheme for all MATH coded modules around week 5 of each semester, where students can write down what they would like to have changed in the module, and the lecturer will explain all changes in the following class.
- All major changes, which affect the respective current cohort of students, and are not covered by the above, will be communicated by the programme co-ordinator.

## Criteria for Admission

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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.

Qualification	Grade/GPA	Subjects requirements	Specific requirements
Bachelor’s degree	at least an upper second-class honours degree	involving units in both mathematics and statistics or equivalent	from a recognised university

Each application is considered on its individual merits. Motivation and relevant postgraduate experience in a statistical environment are important factors that are taken into account.



Other qualifications can be considered, e.g. Professional Development courses provided by the Royal Statistical Society, other professional training courses in statistics, or short courses/tutorials associated with statistics conferences. Therefore candidates should send full details of their training in mathematics and statistics with their application.

Although students are assumed to have a background in mathematics, including basic theoretical statistics, or to be competent mathematicians with a motivation to train as statisticians, the programme is designed to meet the varying needs of students who have previously studied statistics as a minor subject with some other discipline. This flexibility is achieved through the use of optional units that may be combined in various ways with the mainstream compulsory units.

The following texts give an indication of the level of background statistics expected for most candidates: Introduction to the Theory of Statistics, A M Mood, F A Graybill and D C Boes, McGraw-Hill (1974) or Introduction to Mathematical Statistics, R V Hogg and A T Craig Macmillan (1978)

### Recognition of Prior Learning (RPL)

The University has a [Recognition of Prior Learning Policy](#)

### English Language Proficiency

Overall	Reading	Writing	Speaking	Listening
6.5 IELTS	At least 6.0 IELTS	At least 6.0 IELTS	At least 6.0 IELTS	At least 6.0 IELTS

## Career Opportunities

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Past graduates have joined major pharmaceutical companies, research teams at the Medical Research Council, University-based medical research units, contract research organisations, government, the financial sector, or have continued to become successful PhD students.

## External Examiners(s) for the programme

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Name: Dr Lawrence Pettit  
Institution: Queen Mary College, University of London

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 Programme 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.

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**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.southampton.ac.uk/maths/postgraduate/taught\\_courses/diploma\\_msc\\_in\\_statistics\\_with\\_applications\\_in\\_medicine.page?](http://www.southampton.ac.uk/maths/postgraduate/taught_courses/diploma_msc_in_statistics_with_applications_in_medicine.page?)

# Appendix:

## Learning outcomes and Assessment Mapping document template

Module Code	Module Title	Knowledge and Understanding									Subject Specific Intellectual Skills							Transferable/Key Skills						
		A1	A2	A3	A4	A5	A6	A7	A8	A9	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	C5	C6	C7
MATH6153	Statistical Theory and Linear Models	X		X			X							X			X							X
MATH6152	Statistical Computing		X						X		X					X					X			
MATH6031	Statistics project									X*			X		X+			X~	X	X	=	X		
MATH6021	Survival Analysis	X	X	X		X			X		X		X	X	X		X		X		X			
MATH6151	Clinical Trials		X		X	X		X	X		X	X	X	X	X	X	X		X		X			
MATH6027	Design of Experiments	X	X		X	X			X			X	X	X	X		X				X			
MATH6033	Epidemiological Methods		X	X		X		X	X		X		X	X	X		X				X			
STAT6083	Generalised Linear Models	X	X	X		X			X		X		X	X			X				X			
STAT6099	Research Skills		X				X						X	X	X	X	X	X	X					X

\* and a subset of A1-A8, depending on the nature of the topic

+ and a subset of B1-B3, B5, B7, depending on the nature of the topic

= possibly C5, depending on the nature of the topic

~ through oral presentation of the project work

**Core modules**

Module Code	Module Title	Coursework 1	Coursework 2	Coursework 3	Exam
MATH6153	Statistical Theory and Linear Models	Coursework (6 pieces) 30%	N/A	N/A	Examination 70%
MATH6152	Statistical Computing	Coursework in R 50%	Coursework in SAS 50%	N/A	N/A
MATH6031	Statistics Project	Dissertation 100%	N/A	N/A	N/A

**Compulsory modules**

Module Code	Module Title	Coursework 1	Coursework 2	Coursework 3	Exam
MATH6021	Survival Analysis	Coursework 100%	N/A	N/A	N/A
MATH6151	Clinical Trials	Coursework 100%	N/A	N/A	N/A
MATH6027	Design of Experiments	Coursework 20%	N/A	N/A	Open book examination 80%
MATH6033	Epidemiological Methods	Coursework 100%	N/A	N/A	N/A
STAT6083	Generalised Linear Models	3500 word assignment 50%	N/A	N/A	2 hour examination 50%
STAT6099	Research Skills	Coursework 60%	Oral Presentation (must pass, grade does not count to final mark)	Statistical Consulting (group work) 40%	N/A

## 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 the items listed in the table below.

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](http://www.calendar.soton.ac.uk).

Main Item	Sub-section	MODULE SPECIFIC COSTS	PROGRAMME SPECIFIC COSTS
Approved Calculators			Candidates may use calculators in the examination room only as specified by the University and as permitted by the rubric of individual examination papers. The University approved model is Casio FX-570 This may be purchased from any source and no longer needs to carry the University logo.
Stationery			You will be expected to provide your own day-to-day stationery items, e.g. pens, pencils, notebooks, etc.). Any specialist stationery items will be specified under the Additional Costs tab of the relevant module profile.
Textbooks			Where a module specifies core texts these should generally be available on the reserve list in the library. However due to demand, students may prefer to buy their own copies. These can be purchased from any source.  Some modules suggest reading texts as <b>optional</b> background reading. The library may hold copies of such texts, or alternatively you may wish to purchase your own copies. Although not essential reading, you may benefit from the additional reading materials for the module.
IT	Computer Discs	N/A	N/A
	Software Licenses		The software required for the programme (SAS, R, Stata) is available on all public workstations on campus, and accessible from your own computer via VPN.

Main Item	Sub-section	MODULE SPECIFIC COSTS	PROGRAMME SPECIFIC COSTS
	Hardware	N/A	N/A
<b>Printing and Photocopying Costs</b>		<p>MATH6031 Statistics Project: You will be expected to meet the costs for printing and binding 2 copies of your dissertation.</p> <p>Information on Dissertation binding/costs can be found here:</p> <p><a href="http://www.southampton.ac.uk/assets/imported/transforms/content-block/UsefulDownloads_Download/B2F8F934B5C14D1FA130913290548B26/2014_BindingFlyerA6_WEB.pdf">http://www.southampton.ac.uk/assets/imported/transforms/content-block/UsefulDownloads_Download/B2F8F934B5C14D1FA130913290548B26/2014_BindingFlyerA6_WEB.pdf</a></p>	<p>In the majority of cases, coursework such as essays; projects; dissertations is likely to be submitted on line. However, there are some items where it is not possible to submit on line and students will be asked to provide a printed copy. A list of the University printing costs can be found here:</p> <p><a href="http://www.southampton.ac.uk/isolutions/students/printing-for-students.page">http://www.southampton.ac.uk/isolutions/students/printing-for-students.page</a></p>