

Programme Specification

Mathematics, Operational Research, Statistics and Economics (MORSE) (2020-21)

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
Duration in years 3
Accreditation details None

Final award Bachelor of Science with Honours (BSc (Hons))

Mathematics, Operational Research, Statistics and Economics

Name of Award (MORSE

Interim Exit awards Certificate of Higher Education (CertHE)
Diploma of Higher Education (DipHE)

FHEQ level of final award Level 6
UCAS code GL12
Programme Code 4747

QAA Subject Benchmark or

other external reference

Programme Lead

Pathway Lead

Mathematics, Statistics And Operational Research 2007

Thanos Avramidis

Programme Overview

Brief outline of the programme

The purpose of this programme is to provide you with a broad-based programme covering topics in mathematics, operational research, statistics and economics. These different topics are related in that they all rely on using mathematical methods to formulate, model, analyse and solve a wide range of problems.

While studying for your degree, you will develop key study and work skills including written and oral communication, the use of IT, team working, time management and basic research skills including the use of the web and the library.

The programme is centred on a coherent framework of study but incorporates flexibility so that there is ample opportunity to choose topics of special interest to you. This degree may lead to possible exemption from some Core Technical professional actuarial examinations depending on option choices made.

Your contact hours will vary depending on your module/option choices. Full information about contact hours is provided in individual module profiles.

Learning and teaching

The Mathematical Sciences School uses a wide variety of modern learning and teaching methods involving small group tutorial work and computer based learning that builds on what you learn in lectures.

Assessment

Assessment is varied enabling you to demonstrate your strengths and show what you have learnt. Students are provided with access to relevant software that they can use on their own personal computers to assist their studies.

Special Features of the programme

N/A

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 <u>Disclaimer</u> 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 <u>programme validation process</u> which is described in the University's <u>Quality handbook</u>.

Educational Aims of the Programme

The aims of the programme are to:

- · Introduce you to the main basic areas of Mathematics, Operational Research, Statistics and Economics;
- Develop your understanding of abstract mathematical concepts;
- · Offer you the opportunity to study advanced mathematical concepts and techniques;
- · Develop your modelling and problem solving skills;
- Offer you the opportunity to construct an individual programme of study within a coherent framework;
- Offer you the opportunity to study applications of mathematics in a variety of contexts which utilize mathematical and statistical models;
- · Allow you to study applications of operational research in solving the type of quantitative problems that arise in organisations;
- Offer you the opportunity to study advanced mathematical model building and optimization, including theoretical deterministic and stochastic concepts;
- · Introduce you to theoretical statistical concepts;
- Develop your understanding of practical statistical methods;
- \cdot Equip you with knowledge and understanding of core areas of economics such as microeconomics, macroeconomics and quantitative methods;
- Develop your subject specific and transferable skills including an analytical approach to problem solving, logical argument and deductive reasoning, abstraction and generalisation, and written communication skills in mathematics.
- Provide some of the basic IT skills necessary for further study and employment, including word processing and use of the internet;
- Help you to develop key skills: personal organisation, teamwork, problem solving and analysis, finding and using information, and written and oral presentation.

Programme Learning Outcomes

Knowledge and Understanding

On successful completion of this programme you will have knowledge and understanding of:

- A1. The fundamentals of calculus, linear algebra, and statistics;
- A2. The fundamentals of ordinary differential equations and their applications;
- A3. The principles of mathematical proof and some of the techniques of proof;
- A4. The fundamental concepts of real analysis of functions of one variable;
- A5. A range of mathematical modelling techniques including use of graphical networks, cost models, stochastic and decision processes, and statistical modelling:
- A6. Computer-based modelling and optimization methods including packages in optimization and simulation:
- A7. Central concepts and arguments in both microeconomics and macroeconomics.

Teaching and Learning Methods

Acquisition of knowledge and understanding of A1 through A7 is through structured exposition based on lectures, tutorial classes, workshops, private study, and computer laboratory work, all of which are equally important. Increasing independence of learning is required as the programme progresses. Throughout the programme you are encouraged to use additional recommended reading material for private study to consolidate the formal learning process, and to broaden and deepen your understanding.

Assessment Methods

Assessment is undertaken in the first year by a mixture of unseen examinations, regular marked coursework, class tests and computer-based work, together with a small component of project and laboratory work. This variety of assessment relates to A1 through A3, and also to some of the skills described below. This varied approach to assessment continues in the remainder of the programme, with the relative emphasis depending on the options chosen (A4 - A7).

Subject Specific Intellectual and Research Skills

On successful completion of this programme you will be able to:

- B1. Mathematical problem-solving skills for certain types of problems and their variants in a variety of mathematical contexts:
- B2. The ability to undertake algebraic calculations accurately and with understanding;
- B3. The ability to use computer packages (for example, R) as vehicles for mathematical exploration and understanding:
- B4. The ability to understand and to construct mathematical proofs;
- B5. The ability to appreciate, construct and analyse mathematical models of practical situations;
- B6. The ability to apply a range of operational research methods, such as mathematical programming, inventory control and queuing theory, to practical situations;
- B7. The ability to abstract the essential features of complex economic systems and provide a usable framework for the evaluation and assessment of the effects of policy or other exogenous events;
- B8. The ability to apply logical analysis to assumption based economic models and make use of inductive reasoning.

Teaching and Learning Methods

Problem-solving is at the heart of all mathematical activity, and so it is emphasised throughout the learning and teaching experience, as is the need for accurate calculation and logical argument. The use of specific mathematical and computational packages is a part of the curriculum, and the skills acquired there are used in later modules as appropriate.

Assessment Methods

The various methods of assessment involve problem-solving (B1) in addition to the assessment of knowledge and understanding (B2, B4 through B8). Fluency in computer packages (B3) is assessed by coursework.

Transferable and Generic Skills

On successful completion of this programme you will be able to:

- C1. Communicate mathematical ideas in written form;
- C2. Undertake oral presentations:
- C3. Demonstrate group-working skills
- C4. Use email, spreadsheets and show basic word-processing skills;
- C5. Use and obtain information from a variety of different sources including the internet, books and other printed material;
- C6. Use the skills you have acquired (e.g. time-management, organisation, problem-solving, critical analysis, independent learning, etc.) for life-long learning.

Teaching and Learning Methods

The learning of transferable skills begins in the first year. The first year lecturers will set problems for which one of a range of computing packages, such as statistics package R, will be useful, thereby developing transferable skills alongside subject specific skills. Other IT skills such as basic word processing are used alongside first year project work, particularly in statistics. Extensive electronic resources on study skills are available through the Mathematics and University websites.

Further development of IT skills, written communication and general skills such as organisation and time- management is associated to optional second and third year modules that may an element of coursework in their assessment. The second and third year project-based modules develop your portfolio of skills to include internet and library research, group working, and presentation skills.

Assessment Methods

Throughout the programme the clear communication of mathematics is part of the assessment criteria, either explicitly or implicitly. For project work, and for those modules that involve coursework assignments, a proportion of the assessment is allocated to communication (C1, C2, and C4). Project work and coursework

assessment also relate to C5, and where appropriate, C3. The skills referred to in C6 refer to problem-solving, an integral component of all mathematical work, and other learning skills are implicit.

The programme structure table is below:

Information about pre and co-requisites is included in individual module profiles.

Where optional modules have been specified, the following is an indicative list of available optional modules, which are subject to change each academic year. Please note in some instances modules have limited spaces available.

Pathway

Part I

Mathematicians develop important analytical skills and problem-solving strategies to assess a broad range of issues in commerce, science and the arts.

Mathematical models and simulations, and the interpretation of their results, are being called on increasingly in global decisions, as business, politics and management all become more quantitative in their methods. The application of mathematics is also in demand in the social sciences, particularly economics, where mathematical tools are used to formulate models of the complex interactions in an economic system – in situations as significant as the effect on UK inflation of joining the European single currency.

In addition to this, our Curriculum Innovation Programme offers our students the chance to take optional modules outside their core disciplines. This allows you to personalise your education, to develop new skills and knowledge for your future.

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 (ie 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. The optional modules listed constitute an indicative list. There will always be choice but the options might vary between years. A list of optional modules will be available to you via the Student Record Self-Service system once you enrol at the University.

The programme comprises three parts, each corresponding to one year of full-time study. You will normally have to take 4 modules (30 ECTS/60 CATS) each semester (ie 8 modules (60 ECTS/120 CATS) in each year of the programme. Each credit can be considered as the equivalent of approximately ten hours of study. All the modules offered in this programme (except MATH1056) are 7.5 ECTS/15 CATS modules. This means that each module comprises around150 hours of study divided into contact time (e.g. lectures, seminars, workshops) and non-contact time when you will be engaged in directed study (preparation for classes) and independent study when you will be involved in producing assignments and preparing and taking examinations.

The option modules shown below constitute an indicative list; there will always be choice but the options might vary between years. A full list of modules and rules will be available to you via the Student Record Self-Service system once you enrol at the University.

Students must take at least 16 MATHxxxx modules in parts 1, 2 and 3, and at least 4 MATH3xxx modules in part 3.

Part I Compulsory

Code	Module Title	ECTS	Туре
MATH1024	Introduction to Probability and	7.5	Compulsory
	Statistics		
MATH1049	Linear Algebra II	7.5	Compulsory
MATH1060	Multivariable Calculus	7.5	Compulsory
MATH1058	Operational Research I and	7.5	Compulsory
	Mathematical Computing		
ECON1002	Principles of Macroeconomics	7.5	Compulsory

MATH1046 First Year Mathematics Workshop	0	Optional
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Part I Core

Code	Module Title	ECTS	Type
MATH1059	Calculus	7.5	Core
MATH1048	Linear Algebra I	7.5	Core

Part I Option - Rule 1

Students WITHOUT A-Level Economics should select ECON 1001 Foundations of Microeconomics -

Semester 1 (15 credits)

Students WITH A-Level Economics should select ECON 1003 Principles of Microeconomics -

Semester 1 (15 credits)

Code	Module Title	ECTS	Туре	
ECON1001	Foundations of Microeconomics	7.5	Optional	_
ECON1003	Principles of Microeconomics	7.5	Optional	_

Part II

Part II Compulsory

Code	Module Title	ECTS	Туре
MATH2039	Analysis	7.5	Compulsory
ECON2007	Econometrics with Big Data	7.5	Compulsory
MATH2013	Operational Research II	7.5	Compulsory
MATH2038	Partial Differential Equations	7.5	Compulsory
MATH2011	Statistical Distribution Theory	7.5	Compulsory
MATH2010	Statistical Modelling I	7.5	Compulsory

Part II Option - Rule 1

Select 2 modules (30 credits) from the following.

Please note that students on this programme must take at least 16 MATH modules over Parts I, II and III combined, including at least 4 (60 credits) MATH3xxx modules.

You must choose 15 credits from Semester 1 and 15 credits from Semester 2 modules.

The number of MATH modules taken in Part II will affect the number of MATH modules students must take in Part III.

Part II Option - Rule 1 Group 1 - Semester 1 Modules

Please select 15 credits from the following:

If you are selecting from the FREE, UOSM or Lang elective modules, you must ensure that your choice is from Semester 1.

FREE XY15 Part 2 Elective

LANGXX15 Language Module

A maximum of 15 credits in any level NQF5 module in subject MATH

A maximum of 15 credits in any leve; NQF5 module in subject UOSM

Code	Module Title	ECTS	Туре	
MANG1003	Introduction to Management	7.5	Optional	
MATH3087	Maths and your Future	7.5	Optional	

Part II Option - Rule 1 Group 2 - Semester 2 modules

Please select 15 credits from the following:

If you are selecting from the FREE, UOSM or Lang elective modules, you must ensure that your choice is from Semester 2.

Must take 15 credits from the following: FREEXY15 part 2 Elective LANGXX15 language Module

A maximum of 15 credits in any level NQF5 module in subject MATH

A maximum of 15 credits in any level NQF5 module in subject UOSM

Code	Module Title	ECTS	Туре	
MANG2021	Operations Management	7.5	Optional	
ECON2004	Topics in Macroeconomics 2	7.5	Optional	

Part III

Part III Compulsory

Code	Module Title	ECTS	Type
MATH3017	Mathematical Programming	7.5	Compulsory

Part III Option - Rule 0

Please select 0-1 module (0-15 credits) from the following modules:

Code	Module Title	ECTS	Туре
MATH3023	Communicating and Teaching	7.5	Optional
	Mathematics		
MATH3032	Mathematical Investigation and	7.5	Optional
	Communication		
MATH3031	Mathematics Project	7.5	Optional
MATH3087	Maths and your Future	7.5	Optional

Part III Option - Rule 1

Please select 4 up to a maximum of 7 modules (60 - 105 credits) from the following:-

Please Note:- Students on this programme must take at least 16 MATH modules over Parts 1, 2 and 3 combined, including at least 4 (60 credits) MATH 3XXX modules in Part 3.

You may wish to specialise in one of the following areas:-

Group 1. Actuarial & Financial Mathematics

Group 2. Operational Research, Management Sciences & Statistics

Group 3. Mathematics & Statistics

Part III Option - Rule 1 Group 1 Actuarial & Financial modules

Please select 0 up to a maximum of 6 modules (0 - 90 credits) from the following:

Code	Module Title	ECTS	Туре	
MATH3063	Actuarial Mathematics I	7.5	Optional	
MATH3066	Actuarial Mathematics II	7.5	Optional	
MATH3022	Mathematical Finance	7.5	Optional	
STAT3010	Statistical Methods in Insurance	7.5	Optional	
MATH3085	Survival Models	7.5	Optional	
ECON3010	Topics in Macroeconomics 3	7.5	Optional	

Part III Option - Rule 1 Group 2 Op Res, Mgt Sci & Stat Modules

Please select 0 up to a maximum of 7 modules (0 - 105 credits) from the following:

Code	Module Title	ECTS	Туре
MATH3014	Design and Analysis of Experiments	7.5	Optional
MATH3033	Graph Theory	7.5	Optional
MANG3010	Knowledge Management	7.5	Optional
MANG3046	Managing Innovation	7.5	Optional
MATH3018	Numerical Methods	7.5	Optional
MATH3016	Optimization	7.5	Optional
MANG3034	Project Management	7.5	Optional

MATH3013	Simulation & Queues	7.5	Optional
MATH3044	Statistical Inference	7.5	Optional
MATH3091	Statistical Modelling II	7.5	Optional

Part III Option - Rule 1 Group 3 - Maths and Statistics Modules

Please select 0 up to a maximum of 7 modules (0 - 105 credits) from the following:

You may not select MATH3033 if you have already selected it from Group 2.

Code	Module Title	ECTS	Type
MATH3072	Advanced Fluid Dynamics	7.5	Optional
MATH3083	Advanced Partial Differential Equations	7.5	Optional
MATH3080	Algebraic Topology	7.5	Optional
MATH3088	Complex Analysis	7.5	Optional
MATH3078	Further Number Theory	7.5	Optional
MATH3086	Galois Theory	7.5	Optional
MATH3033	Graph Theory	7.5	Optional
MATH3076	Hilbert Spaces	7.5	Optional
MATH3084	Integral Transform Methods	7.5	Optional
MATH3052	Mathematical Biology	7.5	Optional
MATH3006	Relativity, Black Holes and Cosmology	7.5	Optional
MATH3090	Structure and Dynamics of Networks	7.5	Optional

Part III Option - Rule 1 Group 4 - Additional Optional Modules

Please select 0 up to a maximum of 4 modules (0 - 60 credits) from the following:

Code	Module Title	ECTS	Туре
MATH3023	Communicating and Teaching	7.5	Optional
	Mathematics		
MATH3089	Mathematics for the Modern World	7.5	Optional
MATH3031	Mathematics Project	7.5	Optional
MATH3087	Maths and your Future	7.5	Optional

Part III Option - Rule 2

Select 3 modules (45 credits) from the following groups:

Part III Option - Rule 2 Group 1

Select 0 modules (0 credits) up to a maximum of 1 module (15 credits) from the following:-

Note: you are permitted to only `backtrack' once to take a Part 2 module.

Please note you cannot take MATH2049 Geometry and Topology if you have previously taken MATH2046.

Must take 0 credits up to a maximum of 15 credits from the following:

FREEXY15 Part 2 Elective

15 credits in any level NQF5 module in subject MATH

A maximum of 15 credits in any level NQF5 module in subject UOSM.

Code	Module Title	ECTS	Туре	
MANG2014	Accounting and Finance for Non-	7.5	Optional	
	Specialists			

Part III Option - Rule 2 Group 2

Select up to 3 modules (45 credits).

Select 2 modules (30 credits) up to a maximum of 3 modules (45 credits) from the following.

Only 1 non-Math module may be taken this year in either semester 1 or semester 2.

- + FREEXZ15 Part 3 Elective Module (15 credits)
- + LANGXX15 Language Module (15 credits)
- + LANGXX30 Language Module (30 credits)

A Maximum of 15 credits in any level NQF6 module in subject MATH

Code	Module Title	ECTS	Туре
MANG3020	Futures and Options	7.5	Optional
MANG3009	International Banking	7.5	Optional
MANG3046	Managing Innovation	7.5	Optional
MANG3034	Project Management	7.5	Optional
STAT3010	Statistical Methods in Insurance	7.5	Optional
ECON3010	Topics in Macroeconomics 3	7.5	Optional

Progression Requirements

The programme follows the University's regulations for <u>Progression</u>, <u>Determination and Classification of Results: Undergraduate and Integrated Masters Programmes</u> or <u>Progression</u>, <u>Determination and Classification of Results: Postgraduate Master's Programmes</u>. Any exemptions or variations to the University regulations, approved by AQSC are located in <u>section VI of the University Calendar</u>.

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-todate; 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 Hartley Library.
- Enabling Services offering support services and resources via a triage model to access crisis management, mental health support and counselling. Support includes daily Drop In at Highfield campus at 13.00 15.00 (Monday, Wednesday and Friday out of term-time) or via on-line chat on weekdays from 14.00 16.00. Arrangements can also be made for meetings via Skype.
- assessment and support (including specialist IT support) facilities if you have a disability, long term health problem or Specific Learning Difficulty (e.g. dyslexia)
- 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 and Employability services, 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.
- Other support that includes health services (GPs), chaplaincy (for all faiths) and 'out of hours' support for students in Halls and in the local community (18.00-08.00).
- 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; 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 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:

· 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.
- 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, relevant background material to the module and a session-by-session breakdown of 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

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, School Programmes Committee OR providing comments to your student representative to feedback 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.

Further details on the University's quality assurance processes are given in the **Quality handbook**.

Career Opportunities

Employability is embedded into modules from the first year onwards and right from the first lecture. We explain the degree skills which are taught throughout the modules and offer a number of optional employability modules.

We place great importance on the development of graduate skills vital for future employment by adding transferable skills into learning and teaching.

Our degrees are a passport to vocational and non-vocational careers alike, with recent graduates employed in roles ranging from actuaries and statisticians to crime analysts and medical researchers.

External Examiner(s) for the programme

Name: Professor Miguel Anjos - University of Edinburgh

Name: Professor Andrey Lazarev - Lancaster University

Name: Dr Thomas Mohaupt - University of Liverpool

Name: Professor Jeremy Oakley - University of Sheffield

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 Academic 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 they take full advantage of the learning opportunities that are provided. More detailed information can be found in the programme handbook.

Appendix 1:

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 also have to pay for:

Additional Costs

Туре	Details
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 models are Casio FX-570 and Casio FX-85GT Plus. These may be purchased from any source and no longer need to carry the University logo.
IT	The software required for the programme is available on all public workstations on campus, and accessible from your own computer via VPN.
Printing and Photocopying Costs	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: [insert link to relevant page]. For students undertaking modules with a high mathematical content, some assessed work will be submitted in handwritten hard copy format. Students are advised that they will need to bear the costs of the required stationery.
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 optional 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.

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.