Programme Specification

BSc (Hons) Biochemistry: 2017-18

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 years, following standard progression for a full-time student
Accreditation details	Not applicable
Final award	Bachelor of Science – Honours
Name of award	Biochemistry
Interim Exit awards	Bachelor of Science (Ordinary) Diploma of Higher Education Certificate of Higher Education
FHEQ level of final award	6
UCAS code	C700
QAA Subject Benchmark or other external reference	QAA Subject Benchmark Statements for Biomedical Science (2007) QAA Framework for Higher Education Qualifications (FHEQ)
Programme Lead	Dr Mark Coldwell
Date specification was written	2005/06
Date specification was validated	April 2013
Date specification was last updated	July 2017

Programme Overview

Brief outline of the programme

Biochemistry is the study of all aspects of the structure and function of cells and organisms at the molecular level. Graduates with a BSc in Biochemistry are in considerable demand in a variety of areas of employment. In Southampton you will undertake a balanced programme where you will gain the relevant skills and knowledge required for a career in this subject area.

You will be taught through a combination of lectures, tutorials, practical classes, coursework and projects. In Part three you have the possibility to undertake an independent laboratory project, literature project or select from a range of modules studying the biosciences in business, education and communication.

Throughout the programme you will undertake independent reading both to supplement and consolidate the taught material and to broaden your knowledge and understanding of biochemistry.

Learning and teaching

Eight modular units are taken each academic year, four in semester one and four in semester two. A unit normally consists of two lectures a week plus a three-hour practical on alternate weeks. Practicals and other components of in-course assessment contribute up to 25% of your final mark in Parts I to 3. We also provide workshops and pastoral tutorials in which you can get specific help on the content of your lectures. Each week students therefore attend eight 45-minute lectures, an average of two 2 to 3 hour practical classes and may also attend a small group tutorial, which should take up to two hours to prepare.

Assessment

You will be assessed by a combination of continuous assessment and written examinations at the end of each semester to test your knowledge and understanding of the lecture and tutorial material. Continuous assessment is based on performance in tutorials, workshops and practicals. A weighting of 0:1:2 shall be applied to the three parts to obtain the final grade for the Honours Degree Programme.

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:

- a stimulating, informed environment through a wide range of interesting and contemporary courses with flexibility and choice, but allowing you to focus increasingly as you progress through the programme;
- a sound scientific knowledge base in biochemistry
- an ability to describe and comment on specific aspects of current research in biochemical sciences
- an opportunity to develop a range of transferable skills (information and communication technology,
- skills in team working, written and oral communication, time management, planning, data collection and presentation);
- opportunities to develop your skills of critical thinking and to show that you can pursue independent study;
- an opportunity to undertake an independent project on a biochemical topic;
- an education and training suitable for a wide variety of careers and that will prepare you for higher degrees and careers in biochemical research or graduate entry to medicine;
- the capability of life-long learning, study and enquiry.

Programme Learning Outcomes

Knowledge and Understanding

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

Biochemistry

1. the structure and function of biologically important molecules;
2. the role of metabolic pathways in the production of energy and intermediates for cell life and growth;
3. the techniques used to determine the structure and function of macromolecules;
4. the structure and function of membranes and membrane proteins;
5. the molecular recognition and interactions between various macromolecules;
6. the molecular basis of cell communication;

Molecular Biology

7. how genetic information is stored in DNA and how DNA is replicated;
8. the processes of transcription and translation;
9. the basis of DNA technology including genetic engineering and gene therapy;
10. genome projects and their application in the study of normal and pathophysiology;

Essential Physiology

11. the basis of homeostasis;
12. the principal functions of the major organs;
13. the principles of neurophysiology

14. the transport of molecules across biological membranes;
15. the mechanism of cell communication;
16. the structure and function of the cytoskeleton;

Essential Biology

17. composition and spatial organisation of the cell;
18. the major organelle systems in cells;
19. mitosis, meiosis and cell division;
20. genetic inheritance and transmission;
21. cell determination and differentiation.

Teaching and Learning Methods

You will be taught using a combination of lectures, tutorials, practical classes, course work and projects. These activities will enable you to develop a critical understanding of Biochemistry and become familiar with the techniques that are employed in modern Biochemical research. These skills will be consolidated in Part 3, where they will be employed as part of extended research or literature projects or applied in modules looking at the biosciences in business, education or communication. Embedded within these modules are opportunities to develop your transferable and generic skills.

Assessment Methods

You will be assessed by a combination of continuous assessment and written/computer based exams at the end of each semester. Continuous assessment will be assessed by tutorials, practical and project work, providing an opportunity for you to demonstrate your understanding of the subject area and your practical competencies.

Subject Specific Intellectual and Research Skills

Having successfully completed this programme you will be able to:

1. formulate and test hypotheses by planning, conducting and reporting a programme of biochemical research;
2. use a range of biochemical laboratory equipment to generate data;
3. use computer software to record and analyse biochemical data and determine their importance and validity;
4. analyse and solve complex biochemical problems;
5. integrate your biochemistry knowledge base with other selected disciplines such as physiology, biology, pharmacology or chemistry;
6. integrate and evaluate biochemical data from a variety of sources, including primary source material in journals;
7. understand how the boundaries of biochemical knowledge are advanced through research;
8. conduct risk assessments concerning the use of chemicals, animal material and laboratory procedures, if undertaking a final year laboratory research project. Other projects will have equivalent assessments of different activities.

Teaching and Learning Methods

In addition to the methods described above you will be supervised in practical classes and during your final year project(s). As part of your final year project you will be guided in critically reviewing the relevant literature.

Assessment methods

Your subject specific skills will be assessed as described above. Experimental and research skills are assessed through an appropriate combination of laboratory reports, project reports and presentations.

Transferable and Generic Skills

Having successfully completed this programme you will be able to:

1. communicate/present effectively both verbally and in writing to both specialised and non-specialised audiences;

2. work as a member of a team;
3. use information technology and other resources to find, extract and synthesise information;
4. solve problems relating to quantitative information;
5. learn independently in a spirit of critical enquiry;
6. demonstrate that you have the ability to undertake appropriate further training;
7. manage resources and time.
8. demonstrate competency in using laboratory skills in a safe and responsible manner

Teaching and Learning Methods

You will be helped to acquire these skills through aspects of the formal teaching programme. In the early part of the programme this will mainly be through tutorial and coursework, whilst in Part three your project work will give you ample opportunity to further develop and practice many of the individual skills in one major activity.

Assessment methods

Your subject specific skills will be assessed as described above. Experimental and research skills are assessed through an appropriate combination of laboratory reports, project reports and presentations.

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

Typical course content

From DNA to proteins, from single molecules to cells, biochemistry answers the ultimate questions about how living organisms work. Our BSc Biochemistry degree programme provides in depth training in biochemistry, with core subjects in Parts 1 and 2 and opportunities to specialise in Part 3. Our flexible course system offers a wide range of options, with a year out in industry for those who want to gain experience in an industrial setting. Our teaching staff are actively engaged in research into the molecular basis of disease, genetics and the control of gene transcription and translation, oncology, structural biology, DNA recognition and cell signalling.

In Part 1, there are a number of core and compulsory modules, which lay a solid foundation in the basic discipline of this programme. Part 1 is common with both the Biomedical, Neuroscience and Pharmacology programmes and thus offers the flexibility to change degree programme at the end of Part I. A compulsory module is one that you must take (but need not pass) whilst a core module is one that you must take and pass to progress to the next level of study. More specialised training and options that enable diversification commence in Part 2. There is also an opportunity in Part 2 to take modules from the University's Curriculum Innovation Programme (CIP).

In Part 3 the students are exposed to the forefronts of the discipline's knowledge, with the opportunity to conduct supervised original research.

Special Features of the Programme

After completing Part 2 of the Programme you have the possibility to suspend your student registration for a year to undertake a placement in industry or other organisation and develop your interests in Biochemistry outside the academic environment. A dedicated academic will assist you in identifying a suitable placement, and together with the University provide you with support for the duration of your placement.

Programme details

Details of the Programme Structure may be found on the Academic Unit web http://www.southampton.ac.uk/biosci/undergraduate/courses/c700_bsc_biochemistry.page (Where an indicative list of options can be found. We cannot guarantee to offer every option each year); in the Year Handbooks, http://www.southampton.ac.uk/studentservices/academic-life/faculty-handbooks.page and are briefly summarised below.

This is an indicative list of options/modules. We cannot guarantee to offer every option each year**Part 1 (FHEQ Level 4)**

You will take the following FOUR core modules (30 ECTS):
BIOL1007 Macromolecules of Life
BIOL1008 Metabolism and Metabolic Disorders
BIOL1011 Systems Physiology
BIOL1013 Integrative Mammalian Physiology

In addition you will take the following FOUR compulsory modules (30 ECTS):
BIOL1006 Cell Biology and Genetics
BIOL1020 Core Skills in Life Sciences
BIOL1021 Behaviour of Biomolecules
CHEM1039 Chemistry for Biological Sciences

Instead of CHEM1039/BIOL1021, students wishing to study advanced chemistry (following discussion with their tutor), can take:
EITHER CHEM1041 and CHEM1042 (Fundamentals of Organic Chemistry I and II) AND CHEM1043 and CHEM1044 (Fundamentals of Physical Chemistry I and II)
OR CHEM1041 and CHEM1042 AND CHEM1045 and CHEM1046 (Fundamentals of Inorganic Chemistry I and II)

Part 2 (FHEQ Level 5)

You will take the following TWO core modules (15 ECTS):
BIOL2010 Flow of Genetic Information
BIOL2011 Molecular and Cellular Biochemistry

In addition you will take the following TWO compulsory modules (15 ECTS):
BIOL2012 Exploring proteins: Structure and Function
BIOL2013 Bioinformatics & DNA technology

In addition you will take a further FOUR optional modules (30 ECTS) normally taken from the following CfBS (BIOL) modules:
BIOL2002 Cell Biology
BIOL2016 Pharmacology A
BIOL2017 Pharmacology B
BIOL2014 Neuroscience
BIOL2018 Adaptive Physiology
BIOL2022 Immunology, Infection and Inflammation
BIOL2038 Microbiology – from the natural environment to disease
BIOL2043 Biotechnology and the living cell
BIOL2044 Medical microbiology

Several other BIOL modules are available.

A maximum of TWO elective modules can be selected from a range of suitable courses from Academic Units other than Biological Sciences, but no more than one UOSM should be taken. We strongly encourage you to discuss electives with your tutor before pursuing such options.

Part 3 (FHEQ Level 6)

You will take the following THREE compulsory modules (22.5 ECTS):
BIOL3013 Molecular Recognition
BIOL3014 Molecular Cell Biology
BIOL3017 Molecular and Structural Basis of Disease

Plus either:
BIOL3034 In-depth Research Project (15 ECTS)
or
BIOL3058 Bioscience Business (15 ECTS)
or
BIOL3059 Bioscience Education (15 ECTS)
or
BIOL3069 In silico research project (15 ECTS)
or
two of (each 7.5 ECTS):
BIOL3032 Literature-based Research Project (sem2)
BIOL3060 Science Communication (sem1)
BIOL3066 Extended Science Communication (sem2)

In addition you will take at least TWO of the following modules (15 ECTS):
BIOL3012 Cell Membranes
BIOL3015 Regulation of Gene Expression
BIOL3021 Cellular and Molecular Neuroscience
BIOL3027 Selective Toxicity
BIOL3022 Cell Signalling in Health and Disease
BIOL3018 Molecular Pharmacology
BIOL3052 Biomedical Technology
BIOL3063 Bioinformatics and Systems Biology
BIOL3064 Cancer and Chromosome Biology

In addition you can take a single elective module (7.5 ECTS), from the list above or from a range of suitable modules provided by CfBS (BIOL), other Academic Units or a UOSM. A complete list of BIOL modules can be found at http://www.southampton.ac.uk/biosci/undergraduate/modules.page. We strongly encourage you to discuss your module choice with your tutor before pursuing such options.

Progression Requirements

The University regulations governing progression, determination and classification of results in general can be found in the University Calendar (Section IV – General Regulations) http://www.calendar.soton.ac.uk/sectionIV/progression-regs.html.

Those specific to the Faculty and your programme are in Section IX – Faculty of Natural and Environmental Sciences http://www.calendar.soton.ac.uk/sectionIX/sectIX-index.html.

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	FHEQ level	Minimum overall credit in ECTS credits	Minimum ECTS credits required at level of award
Ordinary degree	6	at least 150	30
Diploma of Higher Education	5	at least 120	45
Certificate of Higher Education	4	at least 60	45

Learning outcomes specific to each intermediate exit point correspond to a sub-set of those for the programme as a whole and may be determined by consulting the module map at the end of this document.

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 Hartley Library.
- Enabling Services offering support services and resources via a triage model to access crisis management, mental health support and counselling.
- 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 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
- Other support that includes health services (GPs), chaplaincy (for all faiths) and 'out of hours' support for students in Halls (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:

- An induction programme at the start of the course, which will provide orientation, information on modules, courses, library and computer facilities.
- Handbooks, module handbooks and material on the web.
- Library and academic skill packages.
- Well-equipped laboratories.
- Academic and pastoral support from members of staff, including your personal tutor which will include scheduled meetings at appropriate occasions during the academic year.
- Access to all administrative and academic material on the CBS, Programme and individual module web sites and/or Blackboard (http://www.blackboard.soton.ac.uk).
- Access to all academic staff through an appointment system and e-mail.
- Access to administrative staff in the Faculty Student Offices during the normal working day.
- Feedback on assessment.

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 student 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)
- Institutional Review by the Quality Assurance Agency

The Academic Unit of Biological Sciences has an Education Executive that monitors and evaluates all aspects of learning and teaching at undergraduate level. It considers the results of student feedback and takes appropriate action to remedy any shortcomings. The Director of Education acts on the results of peer observation of teaching and reports from our External Examiners who are selected from comparator universities.

Criteria for admission

The University's Admissions Policy (see www.southampton.ac.uk/admissions-policy) applies equally to all programmes of study. The following are the typical entry criteria we use for selecting candidates for admission to our programmes.

Entry Requirements

These requirements are reviewed annually by our Admissions team. Those stated below were correct as of July 2015.

GCSEs:

We require Grades A-C in English, Mathematics and Science. If you lack these formal qualifications, your aptitude for the course will be assessed at interview. International students, whose first language is not English, must have already attained the necessary standard in English – see English Language Proficiency section below.

A Levels:

AAB (excluding general studies). **Chemistry** must be offered at A-level (minimum Grade B) along with at least one other A-level science subject

A-level Science subjects considered include:

Other science A-levels	Biology Human Biology Physics Mathematics Environmental Science Geology Geography Psychology

Applicants only offering A-level Chemistry will be considered on a case by case basis.

Alternative qualifications

Our admissions requirement is normally defined on the basis of A/AS levels, but equivalent qualifications are accepted.

We do offer entry through a one year Science Foundation programme designed to enable you to qualify for entry to Honours degree programmes in Biological Sciences if you have not studied the appropriate Science subjects at GCE A level or equivalent standard. It is particularly appropriate if you are a mature student or if you have obtained good grades in non-science A levels. We will also accept applications from candidates offering other equivalent qualifications including Scottish and Irish Highers, European and International Baccalaureate, Access and Foundation courses and overseas qualifications.

More information on the entry requirements for Biology can be found on the Biology webpage here - http://www.southampton.ac.uk/undergraduate/courses/biology.shtml

English Language Proficiency

All programmes at the University of Southampton are taught and assessed in the medium of English. Therefore, all applicants must demonstrate they possess at least a minimum standard of English language proficiency. Our minimum standard entry requirements are an IELTS Band C, i.e.Overall	Reading	Writing	Speaking	Listening
6.5	5.5	5.5	5.5	5.5

Information on all acceptable English Language Tests can be found on the University website: www.southampton.ac.uk/admissions-language

Recognition of Prior Learning (RPL)

The University has a Recognition of Prior Learning Policy. It may be possible to recognise formal credit for learning you have acquired in the past through formal study and/or through work and other life experiences. Your application will be considered on individual merit and you may be asked to attend an interview.

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.

Another popular option is to follow a certificate or diploma programme. These are available on a part time basis and most can be taken in the evenings, enabling you to continue to earn an income while you are studying.

Career Opportunities

With a BSc Biochemistry degree you could be expected to find work in the following areas:

- Biotechnology and pharmaceutical industry
- Postgraduate research training
- Scientific officer in medical laboratories
- Teaching
- Forensic science
- Legal profession
- Business management

External Examiners(s) for the programme

Name Dr Pauline Phelan
Institution. University of Kent

Name Dr Stuart Knight
Institution. King's College 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 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 other appropriate guide) or online at (give URL).

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 http://www.calendar.soton.ac.uk/.

Main Item	Sub-section	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 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.
Stationery		You will be expected to provide your own day-to-day stationary 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.
Equipment and Materials	Laboratory Equipment and Materials:	All materials required for laboratory work are provided. Where necessary, suitable specialist safety equipment will be provided.
IT	Computer Discs or USB drives	Students are expected to provide their own portable data storage device.
	Software Licenses	All software is provided
	Hardware	It is advisable that students provide their own laptop or personal computer, although shared facilities are available across the University campus.
Clothing	Lab Coats and safety	One laboratory coat and a pair of safety spectacles are

Main Item	Sub-section	PROGRAMME SPECIFIC COSTS
	spectacles	provided at the start of the programme to each student. If these are lost the student must replace them at their own expense. The Students Union Shop stock these items.
	Field course clothing	You will need to wear suitable clothing when attending field courses, e.g. waterproofs, walking boots. You can purchase these from any source.
Printing and Photocopying Costs		Coursework such as essays; projects; dissertations may be submitted on line. In the majority of cases, though, students will be asked to provide a printed copy. The University printing costs are currently: A4 - 5p per side (black and white) or 25p per side (colour) A3 - 10p per side (black and white) or 50p per side (colour) Please Note: Paper sizes not recognised by the printing devices will prompt you to select the size and then charge a minimum of 50p per black and white copy and a maximum of £1 per colour copy. You can pay for your printing by using the money loaders or by using print copy payment service by going to www.printcopypayments.soton.ac.uk Please remember that we are unable to refund any credit that has not been used by the end of your course, so please consider this when topping up your printing/copy account Students entering Year 1in 2015/16 will be given a printing allowance of £3 per 7.5 ECTS BIOL towards the costs of printing lecture handouts. Practical handouts and module guides will be provided by the university. The University Print Centre also offers a printing and copying service as well as a dissertation/binding service. Current printing and copying costs can be found here. They also provide a large format printing service, e.g. Academic posters. Details of current costs can be found here.
Placements (including Industrial Year out)		Students who choose to go on an industrial placement at the end of Part 2 can expect to cover costs for health and travel insurance, accommodation and living expenses; travel costs; visa costs. This will vary depending on which country you are travelling to.

Revision History

1. Minor revisions (including title) 10 July 2007 (SCK)
2. New Brand added July 2008
3. Updated to reflect University restructuring June 2011 AB.
4. Revisions approved by Senate 19 June 2013 as part of new programme validation process
5. Minor changes made to form guidance on completion of Intended Learning Outcomes, and Learning outcomes and Assessment Mapping document template, for clarity; and changes to wording of support for student learning section, altering to second person throughout – agreed with the Chair and to be reported to UPC October 2013
6. Academic Year 201314 version CQA
7. Updated to take account of new Programme Specification template, September 2015
8. Updated May 2016 to reflect updates to Programme
9. Minor revision July 2017