Programme Specification

MSc Computer Science (2019-20)

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: 1
Accreditation details: British Computer Society (BCS)

Final award: Master of Science (MSc)
Name of award: Computer Science
Interim Exit awards: Postgraduate Certificate in Higher Education, Postgraduate Diploma in Higher Education

FHEQ level of final award: Level 7
UCAS code: N/A
Programme code: 4466
QAA Subject Benchmark or other external reference: Master's Degrees In Computing 2011
Programme Lead: George Konstantinidis (gk1e17)

Programme Overview

Brief outline of the programme
This programme is a portfolio master’s degree, enabling students to further their specialist knowledge of areas such as Artificial Intelligence, Cyber Security, Software Engineering, Web Science, and Web Technology. This programme is taken mainly by international students with a first degree in computing (or a closely related subject plus significant computing experience) and builds on our successful pre-existing specialist masters. The modules which comprise this master’s degree covers state of the art techniques, technologies, and supporting tools, and expose students to their applications in meeting emerging business and social needs, and solving challenging problems. On this programme, students can pick a range of options across these areas in order to build their own degree in a more flexible way.

There is one compulsory module each semester, starting with a review of key topics in computer science designed
to resolve the inevitable variety of background knowledge and to build a cohort with a strong ethos of collaborative working. In the second semester, the focus is on preparing students for their project and enhancing their dissertation writing skills through the creation of a rigorous and peer reviewed project proposal.

Finally, during the summer the core research project enables students to demonstrate their mastery of specialist techniques, relevant methods of enquiry, and their ability to design and deliver advanced application, systems and solutions to a tight deadline, including the production of a substantial dissertation.

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
Learning and teaching methods are explained in the following sections covering programme learning outcomes.

Assessment
Assessment methods are explained in the following sections covering programme learning outcomes.

Special Features of the programme

Southampton is recognised to be internationally leading in the areas mentioned above, and specialist modules are taught by staff involved in leading edge research. Students are therefore exposed to the most up to date thinking, current research problems, and state of the art techniques, technologies and tools.

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 enable you to:

1) Develop original ideas and solve complex problems in new or unfamiliar environments, based on advanced knowledge of the principles and methodologies of a range of computer science specialisms such as Artificial Intelligence, Cyber Security, Data Science, Software Engineering, Web Science and Web Technology
2) Integrate knowledge and handle complexity in the area of computer science, formulating sound judgements with incomplete or limited data
3) Communicate your conclusions and the underpinning knowledge and rationale clearly and unambiguously to specialist and non-specialist audiences
4) Develop your independent learning skills as required for continued professional development

Programme Learning Outcomes
Knowledge and Understanding

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

A1. Key concepts of computer science
A2. Advanced concepts in specialist areas of computer science such as Artificial Intelligence, Cyber Security, Software Engineering, Web Science and Web Technology
A3. State of the art techniques, technologies and tools used in these specialist areas
A4. Methods of software design, development and testing used in these specialist areas
A5. Applicable methods of research and enquiry within the discipline

Teaching and Learning Methods

A1-A5: Most modules consist of a combination of lectures, small group teaching, practical work, directed reading and coursework assignments. At the end of the taught part of the course you will undertake an individual project associated with a research group. Small group teaching, including all practical work, and the individual project accommodate different learning styles. One-on-one tutorials can support full-class lectures, when required.

Assessment Methods

Testing of the knowledge base is through a combination of unseen written examinations and assessed coursework in the form of problem solving exercises, laboratory reports with literature review components, design exercises, and individual and small-group projects.

Subject Specific Intellectual and Research Skills

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

B1. Model, and design advanced and specialised software applications, information systems, and other computer-based solutions
B2. Test, evaluate, and maintain such applications and solutions
B3. Analyse problems to determine appropriate methods of design, testing and evaluation
B4. Find, read, understand and explain literature related to advanced and specialised areas of computer science, including scientific publications, industrial documentation, standards, ethical, legal and environmental guidance
B5. Formulate a research project involving an advanced and specialised software application, system, or other computer-based solution, using appropriate state of the art techniques, technologies and tools
Teaching and Learning Methods

B1-B4: Most modules consist of a combination of lectures, small group teaching, and computer-based practical work including advanced software development tools, directed reading and coursework assignments, which can include a literature review. B4, B5: The Project Preparation module and the Individual Project itself concern the formulation of a research project. Small group teaching, including all practical work, and the individual project accommodate different learning styles. One-on-one tutorials can support full-class lectures, when required.

Assessment Methods

B1-B5: Testing of the subject specific intellectual and research skills is through a combination of unseen written examinations and assessed coursework in the form of problem solving exercises, laboratory reports with literature review components, design exercises, and individual and small-group projects. B4: The Project Preparation module and the dissertation from the MSc Project include a significant literature survey and peer review, and have assessment criteria related specifically to these skills. B5: The Project dissertation is centrally focussed on assessing software research and development skills.

Transferable and Generic Skills

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

C1. Use conventional and electronic indexing and search methods to find technical information
C2. Present technical information concisely in written and verbal forms to a range of audiences
C3. Work in a pair or in a small group on a given task, managing your own contribution and the overall task
C4. Work independently on a significant research project, managing time and risk in an effective manner
C5. Recognise legal and ethical issues of concern to business, professional bodies, and society, including but not limited to information security, and follow relevant guidelines to address these issues

Teaching and Learning Methods

A number of courses have a significant coursework element. This can range from design work through to presentations resulting from directed reading. The individual project includes independent research, project management and report writing.

C1-C3: Most modules include small group teaching, practical work with one or more lab partners, directed reading and coursework assignments with a literature review component. The Project Preparation module includes project management and the delivery of a project plan via a presentation. Small group teaching, including all practical work, and the individual project accommodate different learning styles.

C4: The individual project includes independent research and report writing.

C5: Legal, ethical and professional issues are covered in the compulsory taught modules.

Assessment Methods
Coursework is generally assessed through written reports. The individual project is assessed by a dissertation of up to 15,000 words. The Project Preparation module is assessed via a literature review, as well as written and presentation versions of the project plan.

Subject Specific Practical Skills

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

D1. Use specialist software development and analysis tools

Teaching and Learning Methods

D1: Most modules include practical work, involving use of specialised tools for software development or analysis.

Assessment Methods

Assessment is based on coursework in the form of technical reports, software designs and implementation, and also the MSc dissertation.

Programme Structure

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.

Part I

Typical course content

This umbrella programme consists of eight taught modules, each worth 7.5 ECTS credit points (15 CATS) and an individual research project worth 30 ECTS credit points (60 CATS). There are two compulsory modules. The first of
these reviews the breadth of the field of computer science, while the second module prepares you for your individual research project. You can choose six modules from a very wide range of optional topics, allowing you to tailor the structure to suit your own interests.

Most of these optional modules are compulsory for one or more of our specialist MSc programmes (Artificial Intelligence, Data Science, Cyber Security and Software Engineering). You may choose to focus your choice of optional modules on one or two computer science areas as represented by these programmes. Because the number of options is large, students will be given generic and individual advice to help them make an appropriate selection, based on their academic background and interests.

It should be noted that there are two variations of Machine Learning in semester 1, COMP6245 and COMP6246. These are mutually exclusive, hence only one of these modules can be taken. COMP6245 'Foundations' has a deeper focus on the mathematical foundations of machine learning and aims to serve as a launching point for further study. The practical parts of 'Foundations' focus on understanding how to implement machine learning techniques and understanding how those techniques work. COMP6246 'Technologies' has a technological focus, and allows students to get hands-on experience with modern machine learning techniques. Students studying 'Technologies' will be taught how to use machine learning libraries and tools, and will be expected to achieve a conceptual understanding of how the different techniques work, as well as an understanding of their advantages and disadvantages. Note that some semester 2 modules have COMP6245 or COMP6246 as a prerequisite (see the module specifications). For 'Foundations' it is assumed that students have prior knowledge of linear algebra (including matrix operations), Calculus (including partial differentiation), probability and statistics. For 'Technologies' students should be comfortable with basic linear algebra and the fundamental concepts of Calculus.

Programme details

The programme runs over three semesters. The first semester and the second semester each consist of one compulsory module and three optional modules. Following the first two semesters of the taught component of the programme, the students will undertake a research project which will be assessed by a degree dissertation.

You can take optional modules in any combination but you should seek advice from the programme leader to identify modules that suit your academic background. To facilitate your selection of optional modules, the modules are grouped into five streams:
- Software Engineering
- Web Technology
- Artificial Intelligence
- Data Science
- Cyber Security

All modules are at level 7 (Masters), with the exception of COMP3211 (level 6).

Most modules are shared with our Master of Engineering programmes in Computer Science and our specialist MSc programmes. It should be noted that it may not be possible to run some optional modules if the number of students registered on the module is very small. It should also be noted that optional module choice can be restricted by the University Timetable, which varies from year to year: some optional modules may clash with other optional or compulsory modules. Please be aware that many modules are shared between different cohorts; the class size depends on cohort size, which varies from year to year.

Examinations are held at the end of Semester 1 (January) and at the end of Semester 2 (May/June). Students who have successfully completed 30 ECTS (60 CATS) or 60 ECTS (120 CATS) at the level of the award may exit with a Postgraduate Certificate or Postgraduate Diploma, respectively.

The following is the normal pattern of study for a full-time student, completing the programme within 12 calendar months.

Semester 1:
Four modules, including Topics in Computer Science and three optional modules. Examinations are held in January.

Semester 2:
Four modules, including Project Preparation and three optional modules. Examinations are held in May/June.
Summer/Semester 3:
You will undertake a research project lasting 3 to 4 months, which is assessed by a 15,000 word dissertation.

The programme structure, including the compulsory and optional modules for each semester, is summarised below. Semester 2 modules may have a semester 1 pre-requisite, which can be checked in the module specifications, hence the choice of semester 1 options can affect the options available in semester 2.

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SEMESTER 1 - select three optional modules

COMP6233 - compulsory

COMP6204 - optional (Software Engineering stream)
COMP6219 - optional (Software Engineering stream)
COMP6226 - optional (Software Engineering stream)

COMP6205 - optional (Web Technology stream)
COMP6218 - optional (Web Technology stream)

COMP6202 - optional (AI stream)
COMP6203 - optional (AI stream)
COMP6223 - optional (AI stream)
COMP6231 - optional (AI stream)
COMP6245 or COMP6246 - optional (AI stream)

COMP6234 - optional (Data Science stream)
COMP6235 - optional (Data Science stream)

COMP6224 - optional (Cyber Security stream)
COMP6230 - optional (Cyber Security stream)
COMP6236 - optional (Cyber Security stream)

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SEMESTER 2 - select three optional modules

ELEC6211 - compulsory

COMP3211 - optional (Software Engineering stream)
COMP6201 - optional (Software Engineering stream)
COMP6209 - optional (Software Engineering stream)

COMP6215 - optional (Web Technology stream)
COMP6217 - optional (Web Technology stream)
COMP6239 - optional (Web Technology stream)

COMP6207 - optional (AI stream)
COMP6208 - optional (AI stream)
COMP6211 - optional (AI stream)
COMP6212 - optional (AI stream)
COMP6247 - optional (AI stream)
COMP6248 - optional (AI stream)
ELEC6212 - optional (AI stream)
ELEC6213 - optional (AI stream)

COMP6214 - optional (Data Science stream)
COMP6216 - optional (Data Science stream)
COMP6237 - optional (Data Science stream)

ELEC6242 - optional (Cyber Security stream)

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### Part I Compulsory

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Title</th>
<th>ECTS</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC6211</td>
<td>Project Preparation</td>
<td>7.5</td>
<td>Compulsory</td>
</tr>
<tr>
<td>COMP6233</td>
<td>Topics in Computer Science</td>
<td>7.5</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>

### Part I Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Title</th>
<th>ECTS</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP6200</td>
<td>MSc Project</td>
<td>30</td>
<td>Core</td>
</tr>
</tbody>
</table>

### Part I Optional

Select three semester 1 modules (22.5 ECTS/45 CATS) and three semester 2 modules (22.5 ECTS/45 CATS) from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Module Title</th>
<th>ECTS</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP3211</td>
<td>Advanced Databases</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6208</td>
<td>Advanced Machine Learning</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6207</td>
<td>Algorithmic Game Theory</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6209</td>
<td>Automated Code Generation</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>ELEC6212</td>
<td>Biologically Inspired Robotics</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6211</td>
<td>Biometrics</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6212</td>
<td>Computational Finance</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6223</td>
<td>Computer Vision (MSc)</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>ELEC6242</td>
<td>Cryptography</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Optional</td>
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<tr>
<td>COMP6237</td>
<td>Data Mining</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6234</td>
<td>Data Visualisation</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6248</td>
<td>Deep Learning</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6219</td>
<td>Designing Usable and Accessible Technologies</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6201</td>
<td>E-Business Strategy</td>
<td>7.5</td>
<td>Optional</td>
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<tr>
<td>COMP6202</td>
<td>Evolution of Complexity</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6231</td>
<td>Foundations of Artificial Intelligence</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6224</td>
<td>Foundations of Cyber Security</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6235</td>
<td>Foundations of Data Science</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6245</td>
<td>Foundations of Machine Learning (MSc)</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>ELEC6213</td>
<td>Image Processing</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6203</td>
<td>Intelligent Agents</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6246</td>
<td>Machine Learning Technologies (MSc)</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6239</td>
<td>Mobile Applications Development</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6230</td>
<td>Network and Web Based Security</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6214</td>
<td>Open Data Innovation</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6247</td>
<td>Reinforcement and Online Learning</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6215</td>
<td>Semantic Web Technologies</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6216</td>
<td>Simulation Modelling for Computer Science</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6226</td>
<td>Software Modelling Tools and Techniques for Critical Systems</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>Module Code</td>
<td>Module Title</td>
<td>Credits</td>
<td>Optional</td>
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<td>-------------</td>
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</tr>
<tr>
<td>COMP6204</td>
<td>Software Project Management and Secure Development</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6236</td>
<td>Software Security</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6217</td>
<td>The Science of Online Social Networks</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6218</td>
<td>Web Architecture</td>
<td>7.5</td>
<td>Optional</td>
</tr>
<tr>
<td>COMP6205</td>
<td>Web Development</td>
<td>7.5</td>
<td>Optional</td>
</tr>
</tbody>
</table>

**Progression Requirements**

The programme follows the University's regulations for *Progression, Determination and Classification of Results: Undergraduate and Integrated Masters Programmes* and *Progression, Determination and Classification of Results: Postgraduate Master’s Programmes* as set out in the University Calendar: [http://www.calendar.soton.ac.uk/sectionIV/sectIV-index.html](http://www.calendar.soton.ac.uk/sectionIV/sectIV-index.html)

**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. 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:
- The tutorial system – you will have a personal tutor whom you can meet on request for advice on your programme and choice of options, or for pastoral support
- The ECS Student Advisory Team who provide additional pastoral support
- ECS computer workstations, with a range of manuals and books
- Specialist project laboratories
- Personal email account and web access, including use of on-line collaboration tools
- Helpdesk (programming advisory)
- Post-graduate demonstrators who provide additional support for your design projects
- A web-site for each taught module, typically with teaching materials

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 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.

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.
- Professional body accreditation/inspection.
- A national evaluation of research - which is relevant since our research activity contributes directly to the quality of your learning experience.
- Higher Education Review by the Quality Assurance Agency.

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

Career Opportunities

Graduates from our MSc programme are employed worldwide in development and consultancy roles in a number of leading companies at the forefront of information technology; and some have gone on to doctoral study and University careers, while others have been involved in IT start-ups. ECS runs a dedicated careers hub which is affiliated with over 100 renowned companies like IBM, ARM, Microsoft Research, Imagination Technologies, Nvidia, Samsung and Google to name a few. Visit our careers hub for more information.

External Examiner(s) for the programme

Name: Dr Emil Lupu - Imperial 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 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 s/he takes 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stationery</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Textbooks</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Approved Calculators</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Printing and Photocopying Costs</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

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.