# Programme Specification

## MSc Engineering in the Coastal Environment, MSc Engineering in the Coastal Environment PT - 2018/19

**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 | Part time |
| Duration of study | 1 year |
| Accreditation details | Institution of Civil Engineers, Institution of Structural Engineers, Chartered Institution of Highways and Transportation, Institute of Highway Engineers |
| Final award | Master of Science |
| Name of award | Engineering in the Coastal Environment |
| Interim Exit awards | Postgraduate Certificate<br>Postgraduate Diploma |
| FHEQ level of final award | Level 7 |
| UCAS code | N/A |
| QAA Subject Benchmark or other external reference | Engineering, Engineering Council UK-SPEC, Joint Board of Moderators |
| Programme Coordinator | Prof Robert Nicholls |
| Date specification was written | 31st March 2013 |
| Date programme was validated | July 2014 |
| Date specification last updated | July 2018 |

## Programme Overview

**Brief outline of the programme**

The programme is jointly taught between the Faculty of Engineering and Physical Sciences and Ocean and Earth Science which in the UK is a unique collaboration in this field. It is designed to offer a detailed multi-disciplinary perspective on Coastal Engineering and its role in wider Coastal and Environmental Management. The approach to this subject area is changing rapidly, such as the move to soft engineering and strategic shoreline management, and there are long-term concerns such as sea-level rise. Our experience is that there is a consistent and growing demand for individuals with this type of education both in Britain and abroad. The overall goal is to educate you as technically-orientated coastal practitioners for suitable employment in coastal engineering, both in consultancies and relevant areas of government.

To achieve this, you will develop a systematic understanding and critical awareness of coastal issues in order to simultaneously broaden and deepen your knowledge of this area. You will achieve this through lectures, seminars, and team work. Your knowledge will be consolidated through a research project (dissertation), which is often conducted with a partner in industry or government. This element draws on our existing network of contacts. Recent placements have included CH2MHill (formerly Halcrow), ABPmer, Deltares (formerly Delft Hydraulics), Mott McDonald, URS, Arup, Channel Coastal Observatory, Bournemouth Borough Council, Havant Borough Council, Canterbury City Council and the Environment Agency, among others. As a result of this programme, you will be able to deal with complex issues systematically and creatively and make sound judgements within the field of Coastal Engineering and Environmental Management.

At Southampton, MSc ECE is a key educational component of the Southampton Marine and Maritime Institute (SMMI) (http://www.southampton.ac.uk/smmi), which is developing relevant research across the University, nationally and internationally. The link to SMMI enhances the opportunities available to you both in terms of industrial involvement within the MSc, industrial links for dissertation work, and subsequent career development.

**Learning and teaching**
Acquisition of core knowledge and understanding is through lectures, seminars, tutorials, field and laboratory classes, workshops, and independent study and research. You are encouraged from an early stage to supplement and consolidate your understanding and knowledge by independent study.

**Assessment**

Testing of the knowledge base is through a combination of unseen written examinations and assessed coursework in the form of problem solving exercises, laboratory and field reports, essays and individual and group projects.

Analysis and problem solving skills are assessed through unseen written examinations and problem based exercises. Experimental, research and design skills are assessed through laboratory reports, coursework exercises, project reports and oral presentations.

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

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

## Educational Aims of the Programme

The aims of the programme are to:

- Provide you with a focussed programme of study at the forefront of coastal engineering as a profession, affording a critical awareness of current problems from a coastal and environmental management perspective which is informed by the changing needs of the industry.
- Enable you to develop a comprehensive understanding of the techniques applicable to coastal engineering, especially those related to coastal and environmental management.
- Provide you with a range of specialist modules integrated within the structured learning environment, reflecting the internationally-renowned research expertise within both Faculties, in order to broaden and deepen your educational experience.
- Enable your career pathway towards chartered engineer status.
- Offer you a degree structure that is relevant to industry and responsive to changes in technology and the needs of the community.
- Provide you with a supportive and intellectually stimulating environment that encourages an attitude of independent learning and enquiry, and fosters an ethos of lifetime learning and professional development.
- Develop a set of skills pertinent to the role of the coastal engineer that will enable you to develop decision-making and team working skills in complex and unpredictable situations.
- Offer you a choice of research projects which are supported by the research activities within the Faculties involved in the programme, and stimulate individual innovation, self-assessment and teamwork skills required in coastal engineering.
- Afford you the opportunity of applying theoretical knowledge gained on the programme through a substantial piece of research (dissertation) often involving the gaining of relevant industrial experience.

## Programme Learning Outcomes

The programme provides opportunities for you to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas. The programme outcomes have been developed with reference to the Accrediting Institution guidelines and the UK-SPEC Degree Output Standards General and Specific Learning Outcomes.

### Knowledge and Understanding

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

A1. Mathematics and science that are relevant to coastal engineering.
A2. The fundamental concepts, principles and theories of coastal engineering, including coastal sediment dynamics and coastal morphodynamics.
A3. The principles of engineering design, including coastal structures and marine renewable energy conversion technologies.
A4. The generic concepts of geographical information systems and the principles underlying the analysis of spatial data and its application to coastal management issues.
A5. Appropriate techniques and tools in the solution of coastal sediment transport problems.
A6. Information and communication technology relevant to the practice of coastal engineering.
A7. Factors influencing the choice of flood defences, including other coastal management options such as managed retreat.
A8. Health and safety issues, risk assessment and regulatory frameworks relevant to coastal engineering.
A9. Environmental issues and the importance of coastal engineering to the quality of the environment.
A10. The role of coastal engineers in society and the constraints within which their engineering judgement will be exercised.

Teaching and Learning Methods

Acquisition of core knowledge and understanding is through lectures, seminars, tutorials, field and laboratory classes, workshops, and independent study and research. You are encouraged from an early stage to supplement and consolidate your understanding and knowledge by independent study.

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 design exercises, essays and individual and group projects.

### Subject Specific Intellectual and Research Skills

Having successfully completed this programme you will be able to:

B1. Plan, conduct and report on an individual research programme.
B2. Analyse and solve coastal engineering problems, using appropriate mathematical methods as necessary.
B3. Analyse, appraise, evaluate and summarise data sets relating to environmental, marine or coastal morphodynamic data.
B4. Be creative in the solution of problems and in design development.
B5. Build conceptual models (representationally and mathematically) as scientific and engineering tools to describe a variety of coastal landforms and environments.
B6. Integrate and evaluate information and data from a variety of sources.
B7. Take a holistic approach to solving problems and designing systems, applying professional judgement to balance risks, cost, benefits, safety, reliability, aesthetics and environmental impact.

***Teaching and Learning Methods***

- Intellectual skills are developed through the teaching and learning activities.
- Analysis and problem solving skills are further developed through regular problem sheets issued by module lecturers and through small group teaching.
- Experimental, research and design skills are further developed through coursework exercises, laboratory, and design and research projects.
- Individual feedback is provided on all work submitted.

***Assessment Methods***

- Analysis and problem solving skills are assessed through unseen written examinations and problem based exercises.
- Experimental, research and design skills are assessed through laboratory reports, coursework exercises, project reports and oral presentations.

## Transferable and Generic Skills

Having successfully completed this programme you will be able to:

C1. Communicate effectively – in writing, verbally and through drawings
C2. Apply mathematical skills – algebra, geometry, modelling and analysis.
C3. Learn independently in familiar and unfamiliar situations with open-mindedness and in a spirit of critical enquiry.
C4. Work constructively as a member of a team.
C5. Manage time and resources.
C6. Use Information and Communications Technology.
C7. Use the library, internet and other sources effectively.
C8. Manage tasks and solve problems, transfer techniques and solutions from one area to another, apply critical analysis and judgement.
C9. Learn effectively for the purpose of continuing professional development and in a wider context throughout their career.

***Teaching and Learning Methods***

The development of transferable skills is embedded in all modules of the programme. Typically, this takes the form of project based work and problem based learning.

***Assessment Methods***

Skills are formatively assessed through written reports and oral presentations, practical and laboratory reports. Summative assessment is through unseen examinations, extended essays and completion of a research project, including an interim progress report.

## Subject Specific Practical Skills

Having successfully completed this programme you will be able to*:*

D1. Carry out safely a series of planned experiments.
D2. Use laboratory equipment to generate data.
D3. Analyse experimental results and assess their validity.
D4. Prepare technical reports.
D5. Give technical presentations using a variety of media.
D6. Use computer packages and write computer programs.
D7. Make effective use of scientific literature from various sources.

***Teaching and Learning Methods***

Practical skills are developed in experimental laboratories, computer laboratories, field courses and research based investigations.

***Assessment Methods***

Practical skills are assessed through laboratory experiment reports, coursework exercises, project reports and presentations.

# Programme Structure

The University uses the European Credit Transfer Scheme (ECTS) to indicate the approximate amount of time a typical student can expect to spend in order to complete successfully a given module or programme, where 1 ECTS indicates around 20 nominal hours of study. Previously, Credit Accumulation and Transfer Scheme (CATS) points were used for this purpose where 1 CATS credit was 10 nominal hours of study. The University credit accumulation and transfer scheme is detailed at http://www.calendar.soton.ac.uk/sectionIV/cats.html.

The teaching is structured on a semester pattern. You study modules comprising 90 ECTS (180 CATS) The course is only available full-time.

In addition to the final award, there are the following exit points:

- Postgraduate Certificate of Higher education, following successful completion of 30 ECTS (60 CATS).
- Postgraduate Diploma of Higher education, following successful completion of 60 ECTS (120 CATS).

Each module is a self-contained part of the programme of study and carries a credit rating.

Progression through the programme and classification of degrees are regulated by the standard university progression and classification rules which may be found in section IV of the University Calendar (http://www.calendar.soton.ac.uk/sectionIV/sectIV-index.html) and in particular at http://www.calendar.soton.ac.uk/sectionIV/credit-bearing-progs.html and http://www.calendar.soton.ac.uk/sectionIV/progression-regs-standalonemasters.html

The Programme Structure is outlined in Appendix 1.

## Typical course content

The majority of modules are common to all students on this programme. Depending on your first degree subject, in Semester 1 you will take either CENV6128 (Marine Science graduates) or SOES6075 (Civil Engineering graduates). You will take a total of 4 modules in each semester (if you are a full time student), plus (for the MSc award) a research project.

## Special Features of the programme

The MSc course in Engineering in the Coastal Environment is characterized by high industry involvement in the planning and execution of dissertation projects, significant use of visiting lecturers and field studies. Students have access to the wide range of facilities at the National Oceanography Centre, including survey boats, the library and computing facilities.

## Programme details

The programme follows university guidelines for inclusivity and flexibility and provides an array of teaching and learning approaches that will enable any student who meets the entry requirements to access the curriculum and demonstrate achievement of all the intended learning outcomes.

## Additional Costs

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

In some cases, coursework and/or projects may be submitted electronically. Where it is not possible to submit electronically students will be liable for printing costs, which are detailed in the individual Module Profile and can be found in Appendix 2.

### Progression Requirements

The programme follows the University's regulations for Progression, Determination and Classification of Results : Standalone Masters Programmes as set out in the University Calendar (http://www.calendar.soton.ac.uk/sectionIV/sectIV-index.html) and in particular at http://www.calendar.soton.ac.uk/sectionIV/progression-regs-standalonemasters.html and http://www.calendar.soton.ac.uk/sectionIV/credit-bearing-progs.html

Faculty specific regulations for Standalone Masters can be found here http://www.calendar.soton.ac.uk/sectionVIII/fee-sam.html

### Intermediate exit points (where available)

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

| Qualification | Minimum overall credit in ECTS/CATS | Minimum ECTS/CATSrequired at level of award |
|---|---|---|
| Postgraduate Diploma | at least 60/120 | 45/90 |
| Postgraduate Certificate | at least 30/60 | 20/40 |

# Programme outcomes for different exit points

| | |
|---|---|
| Level 7 | Much of the study undertaken at Masters level reflects research at the forefront of Civil Engineering. You will have shown originality in the application of knowledge, and you will understand how the boundaries of knowledge are advanced through research. You will be able to deal with complex issues both systematically and creatively, and show originality in tackling and solving problems individually and as part of a team. You will have the qualities needed for employment in circumstances requiring sound judgement, personal responsibility and initiative, in complex and unpredictable professional environments. |

## Support for Student Learning

There are systems for the support of student learning in the Faculty as well as available from central University facilities.

In the Faculty and your Discipline you will be able to access:

- Coursebooks for each year of the programme.
- Introductory sessions for all years of the programme.
- Library information retrieval seminar.
- Workshop training.
- Small group tutorials in part of the programmes.
- Engineering Development and Manufacturing Centre (EDMC) equipped with a range of workshop equipment, CAD/CAM.
- Engineering and specific software available on all computers.
- Personal tutors to assist you with personal problems and to advise on academic issues (contact maintained during periods of studying abroad). A senior tutor is also available.
- Access to academic staff through an open door policy as well as timetabled tutor meetings, appointment system and e-mail.
- Research seminars and invited lectures.
- Faculty Student Office for the administration of your programme.

The University provides:

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

The Students' Union provides

- an academic student representation system, consisting of Course Representatives, Academic Presidents, Faculty Officers and the Vice-President Education; 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.

## Methods for Evaluating the Quality of Teaching and Learning

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

- Anonymous evaluation questionnaires for each module of the programme.
- Acting as or represented by Student Representatives on the staff-student liaison committee. You are also represented on the Faculty Programmes Committee
- Meetings, individually or as group, with programme external examiner.

It should be noted that meetings with personal tutor can also be used to comment on quality related issues.

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

- Evaluation for each module of the programme based on your feedback from evaluation questionnaires and carried out by lecturer(s) involved in the module and a colleague acting as advisor.
- Subject oriented Teaching Panels, convening at the end of each academic year, which consider the outcomes of each module's evaluation.

- Moderation of examination papers, coursework and projects, both internally and externally.
- Comments by external examiners, who produce an annual report.
- Peer observation of teaching for each member of staff contributing to learning and teaching, once per academic year.
- Annual examiners' meetings and examiners' boards.
- Annual programme and module reviews considering your feedback from all sources, feedback from teaching panels, external examiners and other bodies and student performance.
- Periodic meetings of the Faculty Industrial Advisory Board.
- Response to results from the National Student Survey.
- Accreditation by professional institutions.
- Periodic Programme Review by the University.

Note that quality assurance of part of the programme taken abroad, where applicable, is subject to the quality procedures of the relevant institutions. These procedures are subject to periodic monitoring by members of staff of the Faculty of Engineering and Physical Sciences.

## Career Opportunities

Graduates from the MSc Engineering in the Coastal Environment gain employment with a range of employers in field in the UK and overseas, including local authorities, national government organisations, engineering consultants, both specialised and multi-disciplinary, and contractors, or continue their studies by undertaking postgraduate research.

## External Examiners(s) for the programme

**Name:** Professor Richard Simons
**Institution**: University College of London

Students must not contact External Examiner(s) directly, and external examiners have been advised to refer any such communications back to the University. Students should raise any general queries about the assessment and examination process for the programme with their 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.

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**Please note:** This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided. More detailed information can be found in the programme handbook at http://www.southampton.ac.uk/studentservices/academic-life/faculty-handbooks.page and at http://www.southampton.ac.uk/engineering/postgraduate/taught_courses/engineering/msc_engineering_in_the_coastal_environment.page

# Revision History

March 2013 (A Bloodworth/R J Nicholls)

September 2013 (A Bloodworth, for revised Calendar regulations and improved wording of aims and learning outcomes)

June 2014 (A Bloodworth/R J Nicholls, codes revised for Faculty modules, minor amends to learning outcomes, additional sections added, for programme validation)

Update to Programme Overview (CMA Changes) – September 2015

Change to EL requirements – 4 November 2015 FPC

Annual textual changes – CQA – August 2016, August 2017

Updated to reflect 201819 version and removal of Admissions Criteria – CQA March 2018
CQA Admin updates to module information July 2018
Updated Faculty name to Faculty of Engineering and Physical Sciences July 2018

# MSc Engineering in the Coastal Environment, Engineering in the Coastal Environment PT

## Appendix 1

## Programme Structure

The information within this Appendix is liable to change in minor ways from year to year. It is accurate for 2017-18 at the time of writing.

The taught component of the MSc consists of eight compulsory modules totalling 56.25 ECTS (112.5 CATS) together with one option chosen from two for 3.75 ECTS (7.5 CATS). A total of 60 ECTS (120 CATS) across two semesters.

The research component of the MSc consists of a Core module of 30 ECTS (60 CATS) which is a research dissertation.

**Modules at level 6 and 7 totalling 180 credits. FEEG6012 MSc Research Project is Core.**

**Students who do not hold a undergraduate degree in Civil Engineering will be expected to register for CENV6128 UNDERSTANDING CIVIL ENGINEERING (HYDRAULICS). Students who do hold an undergraduate degree in Civil Engineering will be expected to register forSOES6075 Introduction to Coasts for Engineers**

| Module Code | Module Name | Semester | ECTS/ CATS Credit Points |
|---|---|---|---|
| CENV 6084 | Coastal & Maritime Engineering and Energy | 1 | 7.5/15 |
| CENV 6123 | Coastal Flood Defence and Management | 2 | 7.5/15 |
| CENV 6126 | Coastal Morphodynamics | 1 | 7.5/15 |
| | | | |
| CENV 6172 | River and Fisheries Restoration | 2 | 7.5/15 |
| ENVS6032 | Geographical Information Systems | 1 | |
| | | | |
| FEEG 6012 | MSc Research Project | 2 & 3 | 30/60 |
| SOES 3014 | Coastal Sediment Dynamics | 1 | 7.5/15 |
| SOES 6060 | Key Skills and Applied Coastal Oceanography | 1 & 2 | 3.75/7.5 |
| SOES 6011 | Modelling Coastal Processes | 2 | 7.5/15 |
| | | | |
| | With 7.5 credits chosen from: | | |
| | | | |
| CENV 6128 | Understanding Civil Engineering (Hydraulics) | 1 | 3.75/7.5 |
| | | | |
| SOES 6075 | Introduction to Coasts for Engineers | 1 | 3.75/7.5 |

| | | Knowledge and Understanding | | | | | | | | | | Subject Specific Intellectual Skills | | | | | | | Transferable/Key Skills | | | | | | | | | Subject-specific practical skills | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Module Code** | **Module Title** | **A1** | **A2** | **A3** | **A4** | **A5** | **A6** | **A7** | **A8** | **A9** | **A10** | **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **C1** | **C2** | **C3** | **C4** | **C5** | **C6** | **C7** | **C8** | **C9** | **D1** | **D2** | **D3** | **D4** | **D5** | **D6** | **D7** |
| CENV 6084 | Coastal & Maritime Engineering and Energy | x | x | x | | | x | | x | | x | | x | | x | | x | x | x | x | | | x | x | x | x | | | | | x | | | x |
| CENV 6123 | Coastal Flood Defence and Management | x | x | x | | | x | x | x | | x | | x | | x | | x | x | x | x | | | x | x | x | x | | | | | | | x | x |
| CENV 6126 | Coastal Morphodynamics | x | x | | | x | x | | | x | | | x | x | | x | x | x | x | x | x | | x | x | x | x | | | | | x | x | x | x |
| CENV 6172 | River and Fisheries Restoration | x | x | | | x | x | | | x | | | x | x | | x | x | x | x | x | x | | x | x | x | x | | | | | x | x | x | x |
| ENVS 6032 | Geographical Information Systems | | | | x | | x | | | | | | | | x | | x | | x | | x | | x | x | x | x | | | | | x | | | x |
| SOES 3014 | Coastal Sediment Dynamics | x | x | | | x | | | | | | | | x | | | | | | | | | x | x | x | x | | x | x | x | | | | x |
| SOES 6011 | Applied Coastal Sediment Dynamics | x | x | | | x | x | | | | | | x | x | | | | | x | x | | | x | x | x | x | | x | | x | | x | x | x |
| SOES 6060 | Key Skills and Applied Coastal Oceanography | | | | | | x | | x | | | | | | | | | | | | | | x | x | x | x | x | | | | | | | x |
| FEEG 6012 | MSc Research Project | | | | | | | | | | | x | | | | | | | x | | x | | x | x | x | x | x | | | | | x | | x |
| CENV 6128 | Understanding Civil Engineering (Hydraulics) | x | x | | | | | | | | | | x | | | | | | | x | | | x | x | x | x | | | x | | | | | x |
| SOES 6075 | Introduction to Coasts for Engineers | x | x | | | | | | | | | | | | | | | | | | | | x | x | x | x | | | | | | | | x |

# Appendix 2:

## Additional Costs

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

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

| 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. |
| T**extbooks** | | 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.<br><br>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**<br><br>**Materials** | Design equipment and materials: | Standard construction/modelling materials will be provided where appropriate, unless otherwise specified in a module profile. For customisation of designs/models calling for material other than standard construction/ modelling materials, students will |

| Main Item | Sub-section | PROGRAMME SPECIFIC COSTS |
|---|---|---|
| | | bear the costs of such alternatives.<br><br>FEEG6012<br>Reasonable expenses for travel and materials of up to £300 may be reclaimed through the Faculty Student Office. For project costs in excess of £300 students should discuss possible sources of funding with their supervisor and should not proceed with any expenditure until a further funding source has been agreed.<br>**https://www.southampton.ac.uk/courses/modules/feeg6012.page** |
| **Clothing** | Lab Coats | |
| | Protective Clothing:<br><br>Hard hat; safety boots; hi-viz vest/jackets; | |
| | Fieldcourse clothing: | You will need to wear suitable clothing when attending fieldcourses, e.g. waterproofs, walking boots. You can purchase these from any source. |
| **Printing and Photocopying Costs** | | In some cases, coursework and/or projects may be submitted electronically. Where it is not possible to submit electronically students will be liable for printing costs, which are detailed in the individual Module Profile.<br><br>FEEG6012<br>Students are expected to cover the costs associated with the printing and binding of reports, including any drawings and graphic presentations. Two copies will need to be submitted. Depending on the quality of printing and binding chosen students can expect to pay approximately £25-30 per copy, totalling approximately £50-60 for both copies.<br>**https://www.southampton.ac.uk/courses/modules/feeg6012.page** |
| **Optional Visits (e.g. museums, galleries)** | | Some modules may include additional optional visits. You will normally be expected to cover the cost of travel and admission, unless otherwise specified in the module profile. |