

Course Information Document: Undergraduate

For students starting in Academic Year 2017/2018

1. Course Summary

Names of programme(s) and award title(s)	Master in Computer Science (MComp) Master in Computer Science with International Year (see Annex A for details)
Award type	Integrated Masters
Mode of study	Full time
Framework of Higher Education Qualification (FHEQ) level of final award	Level 7
Duration	4 years 5 years with International Year
Location of study	Keele University – main campus
Accreditation (if applicable)	Not applicable
Regulator	Higher Education Funding Council for England (HEFCE)
Tuition Fees	UK/EU students: Fee for 2017/18 is £9,250* International students: Fee for 2017/18 is £15,250** The fee for the International Year is calculated at 15% of the standard year fee
Additional Costs	Refer to section 16

How this information might change: Please read the important information at <http://www.keele.ac.uk/student-agreement/>. This explains how and why we may need to make changes to the information provided in this document and to help you understand how we will communicate with you if this happens.

2. What is Integrated Masters programme?

Integrated master's awards - which are common in science, mathematics and engineering - are delivered through a programme that combines study at the level of a bachelor's degree with honours with study at master's level. As such, a student graduates with an integrated master's degree after a single four-year

* These fees are regulated by Government. We reserve the right to increase fees in subsequent years of study in response to changes in government policy and/or changes to the law. If permitted by such change in policy or law, we may increase your fees by an inflationary amount or such other measure as required by government policy or the law. Please refer to the accompanying Student Terms & Conditions. Further information on fees can be found at <http://www.keele.ac.uk/studentfunding/tuitionfees/>

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programme of study. The Integrated Masters programme described in this document builds upon the three year Single Honours programme by adding a fourth year in which students study modules in Computer Science at an advanced level.

3. Overview of the Programme

Master in Computer Science (MComp) is a programme for students with an interest in the application of computing to a wide range of problems. Computer systems are now vital to business, government, science and society, and there is much demand for graduates with the professional understanding and practical skills to harness software and hardware technologies to solve real-world problems, and develop the systems of the future. Many of the recent advances in these areas can be attributed to developments in computing, and this trend is likely to increase in speed and impact.

The four year MComp Programme enables students to devote their studies full-time to the tools, techniques and underpinning theories that make the science and technology so innovative and exciting. It provides the greatest breadth of learning in the subject, and has been developed to in accordance with the accreditation requirements of the British Computer Society (BCS). However, note that the programme is not accredited by the BCS at the time of writing.

The programme explores the theoretical underpinnings of the discipline and places an emphasis on practical computer programming and software development. There is no specific subject requirement for entry to the programme, and no previous experience of computing or computer programming is assumed. The programme does not involve an advanced level of mathematics, and any mathematical knowledge needed beyond that taught at GCSE is taught as part of the modules included in the programme.

4. Aims of the Programme

The broad aims of the programme are to:

- Develop your intellectual, practical and additional transferable skills such that you gain a sound academic grounding in the discipline of Computer Science and an understanding of the professional issues relevant to their future working lives;
- Include areas of teaching at the leading edge of the discipline, as informed by subject research, discipline and industry trends, and market requirements;
- Prepare you for further study or research, and for employment in industry, commerce or public service

The range of opportunities for graduates with computing skills continues to expand. Many of our graduates move into employment that is directly computing-related, for example as systems analysts, software engineers and consultants. A number of graduates go on to study for higher degrees in a wide range of subject areas, at Keele and elsewhere.

5. What you will learn

The intended learning outcomes of the programme (what students should know, understand and be able to do at the end of the programme), can be described under the following headings:

- Subject-related cognitive abilities and skills
- Subject-related practical abilities and skills
- Additional transferable skills (including employability skills)
- Master's level knowledge, understanding and skills

Subject-related cognitive abilities and skills

Successful students will be able to demonstrate knowledge and understanding of:

LO1.1 Computational thinking including its relevance to everyday life.

- LO1.2 The scientific method and its applications to problem solving in this area.
- LO1.3 Essential facts, concepts, principles and theories relating to Computing and computer applications as appropriate to the programme of study.
- LO1.4 Modelling: use such knowledge and understanding in the modelling and design of computer-based systems for the purposes of comprehension, communication, prediction and the understanding of trade-offs.
- LO1.5 Requirements, practical constraints and computer-based systems (and this includes computer systems, information security, embedded, and distributed systems) in their context: recognise and analyse criteria and specifications appropriate to specific problems, and plan strategies for their solutions.
- LO1.6 Critical evaluation and testing: analyse the extent to which a computer-based system meets the criteria defined for its current use and future development.
- LO1.7 Methods and tool: deploy appropriate theory, practices and tools for the specification, design, implementation and evaluation of computer-based systems.
- LO1.8 Professional considerations: recognise the professional, economic, social, environmental, moral and ethical issues involved in the sustainable exploitation of computer technology and be guided by the adoption of appropriate professional, ethical and legal practices.

Subject-related practical abilities and skills

Successful students will have the ability to:

- LO2.1 Specify, design and construct reliable, secure and usable computer-based systems.
- LO2.2 Evaluate systems in terms of quality attributes and possible trade-offs presented within the given problem.
- LO2.3 Plan and manage projects to deliver computing systems within constraints of requirements, timescale and budget.
- LO2.4 Recognise any risks and safety aspects that may be involved in the deployment of computing systems within a given context.
- LO2.5 Deploy effectively the tools used for the construction and documentation of computer applications, with particular emphasis on understanding the whole process involved in the effective deployment of computers to solve practical problems.
- LO2.6 Critically evaluate and analyse complex problems, including those with incomplete information, and devise appropriate solutions, within the constraints of a budget.

Additional transferable skills (including employability skills)

Successful students will have the opportunity to develop:

- LO3.1 A wide range of generic skills to ensure they become effective in the workplace, to the benefit of themselves, their employer and the wider economy.
- LO3.2 Intellectual skills: critical thinking; making a case; numeracy and literacy; information literacy. The ability to construct well-argued and grammatically correct documents. The ability to locate and retrieve relevant ideas, and ensure these are correctly and accurately referenced and attributed.
- LO3.3 Self-management: self-awareness and reflection; goal setting and action planning; independence and adaptability; acting on initiative; innovation and creativity. The ability to work unsupervised, plan effectively and meet deadlines, and respond readily to changing situations and priorities.
- LO3.4 Interaction: reflection and communication; the ability to succinctly present rational and reasoned arguments that address a given problem or opportunity, to a range of audiences (orally, electronically or in writing).
- LO3.5 Team working and management: the ability to recognise and make best use of the skills and knowledge of individuals to collaborate. To be able to identify problems and desired outcomes

and negotiate to mutually acceptable conclusions. To understand the role of a leader in setting direction and taking responsibility for actions and decisions.

LO3.6 Contextual awareness: the ability to understand and meet the needs of individuals, business and the community, and to understand how workplaces and organisations are governed.

LO3.7 Sustainability: recognising factors in environmental and societal contexts relating to the opportunities and challenges created by computing systems across a range of human activities.

Master's level knowledge, understanding and skills

Successful students will be able to:

- LO4.1 Demonstrate the ability to critically evaluate the technical, societal and management dimensions of computer systems
- LO4.2 Demonstrate the knowledge and understanding of advanced aspects of computer systems and their use
- LO4.3 Demonstrate the mastery of the practical methodology of the relevant area of computing, whether for general application in software development or in specialised applications relating to the storing, processing and communication of information
- LO4.4 Demonstrate the ability to assess systems (which may include software, devices, people, and so on), to recognise the individual components and to understand their interaction, to improve systems, to replace them and to create them
- LO4.5 Demonstrate familiarity with relevant codes of ethics and codes of practice, relevant industrial standards and principles underpinning the development of high integrity systems (for safety, security, trust, privacy, and so on), while keeping in focus the benefits of, approaches to and opportunities offered by innovation
- LO4.6 Demonstrate the ability to critically review the literature, which includes identifying all of the key developments in a particular area of study, critically analysing them and identifying limitations and avenues for further development or explanation

6. How is the Programme taught?

Learning and teaching methods used on the programme vary according to the subject matter and level of the module. They include the following:

- **traditional lectures** providing students with detailed notes, often supported by copies of lecture slides in print or electronic form
- **practical sessions** in computer laboratories often supported by copies of laboratory instruction sheets
- **web-based learning** using the University's virtual learning environment (KLE)
- **tutorials** and **directed reading** on specific topics under the supervision of a member of academic staff
- **group project sessions** in which students develop a design for a software item to a level sufficient to allow implementation to follow

Apart from these formal activities, students are also provided with regular opportunities to talk through particular areas of difficulty, and any special learning needs they may have, with their Personal Tutors or module lecturers on a one-to-one basis.

These learning and teaching methods enable students to achieve the learning outcomes of the programme in a variety of ways. For example:

- lectures allow students to gain a systematic knowledge and understanding of computer science concepts and ideas and how to apply them to development of software and information systems
- web-based learning and directed reading allow students to develop their interest in computer science, their ability to reflect on their own learning and to take responsibility for its development
- group sessions enable students to develop their written and oral communication skills

- practical sessions and group work encourage students to work both independently and in collaboration with others as well as enabling them to solve problems in new or unfamiliar environments

7. Teaching Staff

The Computer Science academic staff currently comprises Professors, Readers, Senior Lecturers, Lecturers and Teaching Fellows, of whom a number are Associate Fellows, Fellows, and Senior Fellows of the Higher Education Academy. More information about the Computer Science staff is available at <http://www.keele.ac.uk/scm/staff/>

The University will attempt to minimise changes to our core teaching teams, however, delivery of the programme depends on having a sufficient number of staff with the relevant expertise to ensure that the programme is taught to the appropriate academic standard.

Staff turnover, for example where key members of staff leave, fall ill or go on research leave, may result in changes to the programme's content. The University will endeavour to ensure that any impact on students is limited if such changes occur.

8. What is the Structure of the Programme?

The academic year runs from September to June and is divided into two semesters. The number of weeks of teaching will vary from course to course, but you can generally expect to attend scheduled teaching sessions between the end of September and mid-December, and from mid-January to the end of April.

Our degree courses are organised into modules. Each module is usually a self-contained unit of study and each is usually assessed separately with the award of credits on the basis of 1 credit = 10 hours of student effort. An outline of the structure of the programme is provided in the tables below.

There are four types of module delivered as part of this programme. They are:

- Compulsory core module – a module that you are required to study on this course;
- Optional core module – these allow you some limited choice of what to study from a list of modules;
- Programme approved elective module – subject-related modules that count towards the number of subject credits required by your degree;
- Free-standing elective module – a free choice of modules that count towards the overall credit requirement but not the number of subject-related credits.

Year 1 (Level 4)

In the first year of study the emphasis is placed upon learning to design and write programs to solve problems. Students therefore study both the algorithmic aspects of programming and the use of data structures as a means of incorporating data and knowledge within programs. In addition, they learn about some of the fundamental concepts in computing and the way in which humans interact with technology. Computer Science students also study how information systems are used in business and our every-day lives, and get a chance to apply their coding skills within the context of animation and multimedia development environments.

Core modules	Credits	Elective modules	Credits
Fundamentals of Computing	15	Cybercrime, or a free-standing elective module from another discipline	15
Programming I - Programming Fundamentals	15	A free-standing elective module from another discipline	15
Requirements, Evaluation and Professionalism	15		
Natural Computation	15		
Information Systems and Interaction	15		
Computer Animation and Multimedia	15		

The content of modules at Level 4 is informed by discipline and industry trends and market requirements, and the theoretical and practical requirements of Level 5 and 6 modules.

Level 4 of this programme consists of modules to the value of 120 credits. Discounting electives (of which all students must take two) there are no options at Level 4. However, formally, the Level 4 modules have the following co-requisites.

Module	Co-requisite
Fundamentals of Computing	none
Programming I - Programming Fundamentals	none
Cybercrime	none
Requirements, Evaluation and Professionalism	none
Natural Computation	none
Information Systems and Interaction	Fundamentals of Computing
Computer Animation and Multimedia	Programming I

Year 2 (Level 5)

The second year builds upon the foundation provided in the first year and introduces a number of different models for solving complex problems with computers, such as advanced programming techniques. Students also explore some of the professional and ethical issues in computing, and learn to develop sophisticated web applications and configure the servers on which these rely. MComp Computer Science students also study computational intelligence topics including evolutionary algorithms and neural networks, their use in vision systems and robotics.

Core modules	Credits	Elective modules	Credits
System Lifecycles and Design	15	A free-standing elective module from another discipline	15
Programming II - Data Structures and Algorithms	15		
Database Systems	15		
Mobile Application Development	15		
Computational Intelligence I	15		
Web Technologies	15		
Advanced Programming Practices	15		

The content of modules at Level 5 is informed by discipline and industry trends and market requirements, and the theoretical and practical requirements of Level 6 modules.

Level 5 of this programme consists of modules to the value of 120 credits. Discounting electives (of which all students must take one) there are no options at level two. However, formally, the Level 5 modules have the following precursors.

Module	Precursor
System Lifecycles and Design	Programming I
Programming II - Data Structures and Algorithms	Programming I
Database Systems	Fundamentals of Computing Programming I
Mobile Application Development	Programming I
Computational Intelligence I	Programming I
Web Technologies	Programming I
Advanced Programming Practices	Programming II (co-requisite)

The School has excellent links with local and national employers, and can help students arrange placements and other work experience by connecting them with these employers. A placement can take the form of a year in industry, between the second and third years of study, or can be for a shorter period over the summer vacation following the second year. However, placements are not a formal part of this course.

Year 3 (Level 6)

During the third year, students study a selection of more advanced and specialist topics. Each student also undertakes an individual project which continues across two semesters, culminating in a written dissertation.

Modules shown as “Option” are known as “optional core modules” and students choose from these to make up the required number of modules

Compulsory Core modules	Credits	Optional Core modules	Credits
30-credit Project	30	Software Engineering Project Management	15
		Advanced Information Systems	15
		Advanced Databases and Applications	15
		Games Computing	15
		Bioinformatics	15
		Computing in Education	15
		Computational Intelligence II	15
		Communications and Networks	15
		IT Architectures	15

The content of modules at Level 6 reflects and is informed by the research interests of the teaching staff, discipline and industry trends and market requirements, giving students an opportunity to explore topics at the leading edge of the discipline.

Level 6 of this programme consists of modules to the value of 120 credits: one compulsory core module and six modules to be chosen from optional modules subject to timetable constraints. The Level 6 modules have the following precursors.

Module	Precursors
Software Engineering Project Management	Requirements, Evaluation and Professionalism System Lifecycles and Design
Advanced Information Systems	Information Systems and Interaction Requirements, Evaluation and Professionalism System Lifecycles and Design Database Systems
Advanced Databases and Applications	Database Systems Web Technologies
Games Computing	Programming I plus any of Web Technologies, Mobile App. Development, Programming II
30-credit Project	(Normal progression)
Computing in Education	Interview, Secured place
Computational Intelligence II	Computational Intelligence I
Communications and Networks	(Normal progression)
IT Architectures	System Lifecycles and Design
Bioinformatics	(Normal progression)

Year 4 (Level 7)

During the final year, students study a selection of advanced and specialist topics. Each student also undertakes an individual MComp level project which takes place throughout the second semester of the year, culminating in a written dissertation following the format of research papers published in scientific journals.

Compulsory Core modules	Credits	Optional Core modules	Credits
Research Horizons	15	Web Technologies and Security	15
Statistical Techniques for Data Analytics	15	Cloud Computing	15
Distributed Intelligent Systems	15		
User Interaction Design	15		
MComp Project	30		
Problem Solving Skills for Consultants	15		

The content of modules at Level 7 reflects and is informed by the research interests of the teaching staff, discipline and industry trends and market requirements, giving students an opportunity to explore topics at the leading edge of the discipline at an advanced level.

Level 7 of this programme consists of modules to the value of 120 credits: six compulsory core modules and one to be chosen from two available optional modules. The Level 7 modules have the following precursors.

Module	Precursor
Research Horizons	MComp progression
Statistical Techniques for Data Analytics	MComp progression
Distributed Intelligent Systems	MComp progression
User Interaction Design	MComp progression
MComp Project	MComp progression
Problem Solving Skills for Consultants	MComp progression
Web Technologies and Security	MComp progression
Cloud Computing	MComp progression

For further information on the content of modules currently offered please visit:

www.keele.ac.uk/recordsandexams/az

9. Final and intermediate awards

Credits required for each level of academic award are as follows:

Master in Computing Degree	480 credits	You will require at least 120 credits at levels 4, 5, 6 and 7 You must accumulate at least 435 credits in Computer Science (out of 360 credits overall), with at least 90 credits in Level 4, 105 credits in Level 5, 120 credits in Level 6, and 120 credits in Level 7, to graduate with a named integrated master's degree in Computer Science.
Honours Degree	360 credits	You will require at least 120 credits at levels 4, 5 and 6 You must accumulate at least 315 credits in Computer Science (out of 360 credits overall), with at least 90 credits in Level 4, 105 credits in Level 5 and 120 credits in Level 6, to graduate with a named single honours degree in Computer Science.
Diploma in Higher Education	240 credits	You will require at least 120 credits at level 4 or higher and at least 120 credits at level 5 or higher

Certificate in Higher Education	120 credits	You will require at least 120 credits at level 4 or higher

Master in Computer Science with International Year: in addition to the above students must pass a module covering the international year in order to graduate with a named degree in Computer Science with International Year. Students who do not complete, or fail the international year, will be transferred to the four-year Computer Science programme.

10. How is the Programme assessed?

The wide variety of assessment methods used within Computing at Keele reflects the broad range of knowledge and skills that are developed as you progress through the degree programme. Teaching staff pay particular attention to specifying clear assessment criteria and providing timely, regular and constructive feedback that helps to clarify things you did not understand and helps you to improve your performance. The following list is representative of the variety of assessment methods used within Computing:

- **Unseen examinations** in different formats test a student's knowledge and understanding of computer science topics. Such examinations are of two hours in length and contain compulsory and possibly also optional questions
- **Class tests** are taken during the course of a module, usually in a lecture slot. They are intended to assess a student's current understanding and subject knowledge in that module in a structured and focused manner. Some taught compulsory modules may have class tests as part of the assessment profile
- **Coursework** normally consists of assignments designed to assess student's knowledge and understanding of the module material. Some of these assignments may be computer based; others take the form of individual reports, essays or group projects
- **Short reports:** for which students are required to write up their own account of small group studies and discussions on particular topics
- **Tutorial Participation**, whereby students may be asked to make contributions based on the subject material, either orally or as a written solution, sometimes in consultation with their peers
- **Dissertations** are formal reports of work carried out by students undertaking a project. Projects involve the integration and application of theoretical knowledge and problem-solving skills to an identified programming need and/or research problem within the discipline. Dissertations describe product and process in extended detail

Marks are awarded for summative assessments designed to assess your achievement of learning outcomes. You will also be assessed formatively to enable you to monitor your own progress and to assist staff in identifying and addressing any specific learning needs. Feedback, including guidance on how you can improve the quality of your work, is also provided on all summative assessments within three working weeks of submission, unless there are compelling circumstances that make this impossible, and more informally in the course of tutorial and seminar discussions.

11. Contact Time and Expected Workload

This contact time measure is intended to provide you with an indication of the type of activity you are likely to undertake during this programme. The data is compiled based on module choices and learning patterns of students on similar programmes in previous years. Every effort is made to ensure this data is a realistic representation of what you are likely to experience, but changes to programmes, teaching methods and assessment methods mean this data is representative and not specific.

Undergraduate courses at Keele contain an element of module choice; therefore, individual students will experience a different mix of contact time and assessment types dependent upon their own individual choice of modules. The figures below are an example of activities that a student may expect on your chosen course by

year/stage of study. Contact time includes scheduled activities such as: lecture, seminar, tutorial, project supervision, demonstration, practical classes and labs, supervised time in labs/workshop, fieldwork and external visits. The figures are based on 1,200 hours of student effort each year for full-time students.

Activity	Year 1 (Level 4)	Year 2 (Level 5)	Year 3 (Level 6)	Year 4 (Level 7)
Scheduled learning and teaching activities	27%	29%	16%	23%
Guided independent Study	73%	71%	84%	77%
Placements	0%	0%	0%	0%

12. Accreditation

This programme does not have accreditation from an external body.

13. Regulations

The University Regulations form the framework for learning, teaching and assessment and other aspects of the student experience. Further information about the University Regulations can be found at: <http://www.keele.ac.uk/student-agreement/>

Computer Science Regulations

Transfer onto and off the MComp Programme

Regulation 1F, paragraph 2.1 states that the rules governing eligibility for transfer onto an Integrated Masters programme shall be governed by the relevant Course Regulations.

Single Honours BSc Computer Science students will be permitted to transfer onto the MComp Programme at any point up to the end of Level 5, subject to having met any relevant progression criteria and, in any event, only with the approval of the Programme Director. Dual Honours BSc Computer Science students will, subject to the same considerations, normally be permitted to transfer on to the MComp Programme within two weeks of the commencement of Level 5.

MComp students will be permitted to transfer to an approved Computer Science Bachelors programme at any point up to the end of week eight of the second semester of Level 6.

Study Abroad (semester abroad)

Students intending to study abroad must pass all modules in their first year and obtain an average of at least 50%. The school can insist that no placement is made if a student's progress is not of a satisfactory standard.

Students spending a semester abroad during their second year of study must agree a programme with the Study Abroad Tutor (SAT) before they leave and must agree any subsequent changes that become necessary.

Marks obtained will be converted into Keele equivalents according to the agreement between Keele and the partner institution. In the case of borderline marks or incomplete work, the Computer Science examination board will determine the mark to be awarded. In the event of unfinished modules, the Director of Learning and Teaching or Study Abroad Tutor may require extra work to be completed.

A student who has completed a semester abroad will not normally be eligible to transfer onto the International Year option.

14. What are the typical admission requirements for the programme?

Subject	A-level	Subjects not included	International Baccalaureate	BTEC	Access to Higher Education Diploma	GCSE requirements

Computer Science (MComp) Undergraduate Masters (Single Honours)	ABB	General Studies and Critical Thinking	34 points	DDM	Obtain Access to Higher Education Diploma with 30 Level 3 credits at Distinction and 15 Level 3 credits at Merit	Maths @ C (or 4) English Language @ C (or 4)
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Applicants who are not currently undertaking any formal study or who have been out of formal education for more than 3 years and are not qualified to A-level or BTEC standard may be offered entry to the University's Foundation Year Programme.

Applicants for whom English is not a first language must provide evidence of a recognised qualification in English language. The minimum score for entry to the Programme is Academic IELTS 6.0 or equivalent.

Please note: All non-native English speaking students are required to undertake a diagnostic English language assessment on arrival at Keele, to determine whether English language support may help them succeed with their studies. An English language module may be compulsory for some students during their first year at Keele.

Accreditation of Prior Learning (APL) is considered on a case-by-case basis and those interested should contact the Programme Director. The University's guidelines on this can be found here:

<http://www.keele.ac.uk/ga/accreditationofpriorlearning/>

15. Other learning opportunities

Study abroad (semester)

Students on the MComp Computer Science programme have the potential opportunity to spend a semester abroad in their second year studying at one of Keele's international partner universities.

Exactly which countries are available depends on the student's choice of degree subjects. An indicative list of countries is on the website (<http://www.keele.ac.uk/studyabroad/partneruniversities/>); however this does not guarantee the availability of study in a specific country as this is subject to the University's application process for studying abroad.

No additional tuition fees are payable for a single semester studying abroad but students do have to bear the costs of travelling to and from their destination university, accommodation, food and personal costs. Depending on the destination they are studying at additional costs may include visas, study permits, residence permits, and compulsory health checks. Students should expect the total costs of studying abroad to be greater than if they study in the UK, information is made available from the Global Education Team throughout the process, as costs will vary depending on destination

Whilst students are studying abroad any Student Finance eligibility will continue, where applicable students may be eligible for specific travel or disability grants. Students studying in Erasmus+ destinations may be eligible for grants as part of this programme. Students studying outside of this programme may be eligible for income dependent bursaries at Keele.

Students travel on a comprehensive Keele University insurance plan, for which there are currently no additional charges. Some governments and/or universities require additional compulsory health coverage plans; costs for this will be advised during the application process.

Students considering study abroad should be aware that because of the nature of the discipline, it is difficult to find appropriate matching modules in other countries. Any student considering study abroad is strongly advised to take specific advice from appropriate members of staff such as the Study Abroad Tutor as early as possible.

Study Abroad (International Year)

A summary of the International Year, which is a potential option for students after completion of year 2 (Level 5), is provided at Annex A.

16. Additional costs

Computer Science Programme Additional Costs

Some travel costs may be incurred if an external project is undertaken. However, any such costs would be discussed with you before the project was selected. It would be possible for you to select an internal project that would not incur any additional costs.

‘Computing in Education’ is an optional third year module which involves students spending one day a week supporting a teacher in a local school or college, over at least 16 weeks. A DBS check will be required in order to take the module, and this currently costs £44. Travel will be required, depending on the location of the school or college you choose. The costs of both of these would be incurred by the student and cannot be reimbursed by the university. It is possible to select alternative modules, which do not incur any cost.

These costs have been forecast by the University as accurately as possible but may be subject to change as a result of factors outside of our control (for example, increase in costs for external services). Forecast costs are reviewed on an annual basis to ensure they remain representative. Where additional costs are in direct control of the University we will ensure increases do not exceed 5%.

As to be expected there will be additional costs for inter-library loans and potential overdue library fines, print and graduation.

We do not anticipate any further additional costs for this undergraduate programme.

17. Document Version History

Version history	Approved Date	Notes
Date first created	October 2016	
Revision history	V2.0: 02/2017 V3.0: 08/2017	Remove CSY-30002 Electronic Commerce optional module - content no longer current [minor change] Remove CSC-10033 Systems and Architecture; CSC-20024 Virtual Worlds; CSC-30023 Evolution of Complex Systems [minor change – optional modules]
Date approved	FLTC 03/02/17	

Annex A for Single Honours Programmes

International Year Programme

Students registered for Single Honours MComp Integrated Masters may either be admitted for or apply to transfer during their period of study at Level 5 to the Single Honours MComp Integrated Masters with International Year'. Students accepted onto this programme will have an extra year of study (the International Year) at an international partner institution after they have completed Year 2 (Level 5) at Keele.

Students who successfully complete both the second year (Level 5) and the International Year will be permitted to progress to Level 6. Students who fail to satisfy the examiners in respect of the International Year will normally revert to the MComp Integrated Masters and progress to Level 6 on that basis. The failure will be recorded on the student's final transcript.

Study at Level 4, Level 5 and Level 6 will be as per the main body of this document. The additional detail contained in this annex will pertain solely to students registered for MComp Integrated Masters with International Year'.

International Year Programme Aims

In addition to the programme aims specified in the main body of the programme specification, the international year programme of study aims to provide students with:

1. Personal development as a student and a researcher with an appreciation of the international dimension of their subject
2. Experience of a different culture, academically, professionally and socially.

Entry Requirements for the International Year

Students may apply to the 4-year programme during Level 5. Admission to the International Year is subject to successful application, interview and references from appropriate staff.

The criteria to be applied are:

- Academic Performance (an average of 60% across all modules at Level 5 is normally required)
- General Aptitude (to be demonstrated by application for study abroad, interview during the 2nd semester of year 2 (Level 5), and by recommendation of the student's personal tutor, 1st and 2nd year tutors and programme director)

Student Support

Students will be supported whilst on the International Year via the following methods:

- Phone or Skype conversations with Study Abroad tutor, in line with recommended Personal Tutoring meeting points.
- Support from the University's Global Education Team.

Learning Outcomes

In addition to the learning outcomes specified in the main text of the Programme Specification, students who complete a Keele undergraduate programme with International Year will be able to:

- a. Describe, discuss and reflect upon the cultural and international differences and similarities of different learning environments
- b. Discuss the benefits and challenges of global citizenship and internationalisation
- c. Explain how their perspective on their academic discipline has been influenced by locating it within an international setting.

In addition, students who complete MComp Integrated Masters with International Year' will be able to:

- i) communicate effectively in an international setting;
- ii) reflect on previous learning within an international context.

These learning outcomes will all be assessed by the submission of a satisfactory individual learning agreement, the successful completion of assessments at the partner institution and the submission of the reflective portfolio element of the international year module.

Course Regulations

Students registered for the 'MComp Integrated Masters with International Year' are subject to the course specific regulations (if any) and the University regulations. In addition, during the International Year, the following regulations will apply:

Students undertaking the International Year must complete 120 credits, which must comprise *at least 40%* in the student's discipline area.

This may impact on your choice of modules to study, for example you will have to choose certain modules to ensure you have the discipline specific credits required.

Students are barred from studying any Computer Science module with significant overlap to Level 6 modules to be studied on their return. Significant overlap with Level 5 modules previously studied should also be avoided.

Additional costs for the International Year

Tuition fees for students on the International Year will be charged at 15% of the annual tuition fees for that year of study, as set out in Section 1. The International Year can be included in your Student Finance allocation, to find out more about your personal eligibility see: www.gov.uk

Students will have to bear the costs of travelling to and from their destination university, accommodation, food and personal costs. Depending on the destination they are studying at additional costs may include visas, study permits, residence permits, and compulsory health checks. Students should expect the total costs of studying abroad be greater than if they study in the UK, information is made available from the Global Education Team throughout the process, as costs will vary depending on destination.

Students studying in Erasmus+ destinations may be eligible for grants as part of this programme. Students studying outside of this programme may be eligible income dependent bursaries at Keele.

Students travel on a comprehensive Keele University insurance plan, for which there are currently no additional charges. Some Governments and/or universities require additional compulsory health coverage plans; costs for this will be advised during the application process.