

## Programme Specification: Undergraduate

### For students starting in Academic Year 2023/24

#### 1. Course Summary

<b>Names of programme and award title(s)</b>	BSc (Hons) Computer Science BSc (Hons) Computer Science with International Year (see Annex for details) BSc (Hons) Computer Science with Work Placement Year (see Annex for details)
<b>Award type</b>	Combined Honours
<b>Mode of study</b>	Full-time
<b>Framework of Higher Education Qualification (FHEQ) level of final award</b>	Level 6
<b>Normal length of the programme</b>	3 years; 4 years with either the International Year or Placement Year between years 2 and 3
<b>Maximum period of registration</b>	The normal length as specified above plus 3 years
<b>Location of study</b>	Keele Campus
<b>Accreditation (if applicable)</b>	Not applicable
<b>Regulator</b>	Office for Students (OfS)
<b>Tuition Fees</b>	<p><b>UK students:</b></p> <p>Fee for 2023/24 is £9,250*</p> <p><b>International students:</b></p> <p>Fee for 2023/24 is £18,800**</p> <p>The fee for the international year abroad is calculated at 15% of the standard year fee</p> <p>The fee for the work placement year is calculated at 20% of the standard year fee</p>

**Please note this document applies to Level 5 (Year 2) and Level 6 (Year 3) students only in 2024/25. Level 4 (Year 1) students should refer instead to the document labelled 2024/25.**

**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.

\* 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/>

\*\* We reserve the right to increase fees in subsequent years of study by an inflationary amount. Please refer to the accompanying Student Terms & Conditions for full details. Further information on fees can be found

## 2. What is a Combined Honours programme?

Combined Honours degrees are degrees that are taken in two different subjects, resulting in an X and Y degree title. If you are taking a Combined Honours programme, these will be the two subjects you applied for. These are referred to as your Principal Subjects.

In a Combined Honours degree you must take at least 135 credits in each Principal Subject (270 credits in total), accrued over all three levels of study, with at least 45 credits at each level of study (Levels 4, 5 and 6) in each of two Principal Subjects (90 credits per year). The remaining available credits can be filled with modules from these subjects or other subjects entirely.

As a Combined Honours student you can choose to study just one subject in your final year of study, taking a minimum of 90 credits in this subject. This will result in an X with Y degree title.

## 3. Overview of the Programme

Combined Honours Computer Science 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 programme explores the theoretical underpinnings of the discipline and places an emphasis on practical computer programming and software development. Combined and Single Honours Computing programmes have a common first semester and common entrance requirements. This retains flexibility of choice during the first semester of the first year. There are no specific subject requirements for entry to our computing programmes, and no previous experience of computing or computer programming is assumed. The programmes do 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 programmes.

## 4. Aims of the programme

The broad aims of the programme are to:

- develop the intellectual, practical and additional transferable skills of the student such that they 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, working in the same context as Single Honours Computer Science graduates from elsewhere. In some cases, the breadth of a Single Honours Computer Science degree is an advantage; in others the sector of employment is also related to another Combined Honours degree subject, which enables our students to offer a unique blend of skills to potential employers. 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 knowledge and understanding
- Subject specific skills
- Key or transferable skills (including employability skills)

### Subject knowledge and understanding

Successful students will be able to:

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 specific 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.

## **Key or 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.

## The Keele Graduate Attributes

The Keele Graduate Attributes are the qualities (skills, values and mindsets) which you will have the opportunity to develop during your time at Keele through both the formal curriculum and also through co- and extra-curricular activities (e.g., work experience, and engagement with the wider University community such as acting as ambassadors, volunteering, peer mentoring, student representation, membership and leadership of clubs and societies). Our Graduate Attributes consist of four themes: **academic expertise, professional skills, personal effectiveness, and social and ethical awareness**. You will have opportunities to engage actively with the range of attributes throughout your time at Keele: through your academic studies, through self-assessing your own strengths, weaknesses, and development needs, and by setting personal development goals. You will have opportunities to discuss your progress in developing graduate attributes with, for example, Academic Mentors, to prepare for your future career and lives beyond Keele.

## 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 Academic Mentors 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 programme to programme, 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 two types of module delivered as part of your programme. They are:

- Compulsory modules - a module that you are required to study on this course;

- Optional modules - these allow you some limited choice of what to study from a list of modules.

Optional modules include Global Challenge Pathways - a choice of modules from different subject areas that count towards the overall credit requirement but not the number of subject-related credits.

Global Challenge Pathways can either be taken as one 15-credit module at Levels 4, 5 and 6, or one 15-credit module at Levels 5 and 6 (except for the TESOL pathway). **Information about Global Challenge Pathways can be found after the module lists for Level 6.**

## Language modules

Students on this programme will also be able to study language modules offered by the Language Centre, as part of a Global Challenge Pathway. You can enrol on either a Modern Language module [more information available at this [link](#)] (Semester 1 only) Teaching English to Speakers of Other Languages (TESOL) (Semesters 1 and 2) module (ENL-10053), or the Intercultural Explorer pathway (ENL-10057). See the Global Challenges Pathway information under the module lists for more details.

If you choose the Language Specialist pathway, you will automatically be enrolled on a Semester 2 Modern Language module as a continuation of your language of choice as a faculty funded 'additional' module. Undertaking a Modern Languages module in Semester 2 is compulsory if you wish to continue to the Language Specialist Global Challenge Pathway the following academic year.

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

<https://www.keele.ac.uk/recordsandexams/modulecatalogue/>

A summary of the credit requirements per year is as follows, with a minimum of 90 subject credits (compulsory plus optional) required for each year across both of your Principal Subjects, with at least 60 credits at each level of study (Levels 4, 5 and 6). This document has information about *Computer Science* modules only; please also see the document for your other subject.

Year	Compulsory	Optional		Electives	
		Min	Max	Min	Max
Level 4	45	15	15	0	0
Level 5	0	60	60	0	0
Level 6	30	30	30	0	0

In year 3 there is the option to choose to specialise in one of your subjects, taking a minimum of 90 credits in this subject rather than taking modules from both subjects.

## Module Lists

### Level 4

Compulsory modules	Module Code	Credits	Period
Programming I - Programming Fundamentals	CSC-10024	15	Semester 1
Fundamentals of Computing	CSC-10029	15	Semester 1
Communication, Confidence and Competence	CSC-10056	15	Semester 2

<b>Optional modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Cybercrime	CSC-10025	15	Semester 1
Systems and Architecture	CSC-10033	15	Semester 1
Introduction to Data Science I	CSC-10058	15	Semester 1
Computer Animation and Multimedia	CSC-10026	15	Semester 2
Introduction to Interaction Design	CSC-10040	15	Semester 2
Introduction to Algorithms	CSC-10064	15	Semester 2

*NB: Global Challenge Pathways (GCPs) - students have the option of taking a Global Challenge Pathway, can either be taken as one 15-credit module at Levels 4, 5 and 6, or one 15-credit module at Levels 5 and 6 (except for the TESOL pathway). Information on GCPs is shown under the Level 6 modules below.*

### **Level 5**

<b>Optional modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Web Technologies	CSC-20021	15	Semester 1
Programming II - Data Structures and Algorithms	CSC-20037	15	Semester 1
Mobile Application Development	CSC-20038	15	Semester 1
Computational and Artificial Intelligence I	CSC-20043	15	Semester 1
Database Systems	CSC-20002	15	Semester 2
Advanced Programming Practices	CSC-20004	15	Semester 2
Software Engineering	CSC-20041	15	Semester 2
Individual Study Topic in Computer Science	CSC-20047	15	Semester 2
Digital Forensics	FSC-20013	15	Semester 2

### **Level 6**

For students specialising in this subject at Level 6, a minimum of 90 credits must be taken in this subject (see the lower tables of compulsory and optional modules below). For students specialising in another subject, the first list should be used.

<b>Compulsory modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Third Year Double Project - ISP	CSC-30014	30	Semester 1-2

<b>Optional modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Games Computing	CSC-30019	15	Semester 1
Data Ethics and Security	CSC-30045	15	Semester 1
Cyber Security	CSC-30057	15	Semester 1
Software Development Management	CSC-30069	15	Semester 1
Advanced Databases and Applications	CSC-30002	15	Semester 2
Communications and Networks	CSC-30012	15	Semester 2
Advanced Web Technologies	CSC-30025	15	Semester 2
Computational and Artificial Intelligence II	CSC-30027	15	Semester 2

If you choose to specialise in this subject in your final year you will study the following modules:

<b>Compulsory modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Third Year Double Project - ISP	CSC-30014	30	Semester 1-2

<b>Optional modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Period</b>
Games Computing	CSC-30019	15	Semester 1
Data Ethics and Security	CSC-30045	15	Semester 1
Cyber Security	CSC-30057	15	Semester 1
Software Development Management	CSC-30069	15	Semester 1
Advanced Databases and Applications	CSC-30002	15	Semester 2
Communications and Networks	CSC-30012	15	Semester 2
Advanced Web Technologies	CSC-30025	15	Semester 2
Computational and Artificial Intelligence II	CSC-30027	15	Semester 2

### **Global Challenge Pathways (GCPs)**

Students have the option of taking a Global Challenge Pathway, which includes one 15-credit module at Levels 4, 5 and 6, or one 15-credit module at Levels 5 and 6. Students who started a Global Challenge Pathway at Level 4 will continue with the same pathway at Level 5. Students joining Global Challenge Pathways at Level 5 can join any pathway (except TESOL). Students at Level 6 will continue with the same Global Challenge Pathway they studied at Levels 4 and/or Level 5.

Global Challenge Pathways offer students the chance to fulfil an exciting, engaging route of interdisciplinary study. Choosing a pathway, students will be presented with a global issue or 'challenge' which directly relates to societal issues, needs and debates. They will be invited to take part in academic and external facing projects which address these issues, within an interdisciplinary community of students and staff. Students completing a Global Challenge Pathway will receive recognition on their degree certificate.

<p><b>Digital Futures</b></p>	<p>The Digital Futures pathway offers you the opportunity to take an active role in current debates, cutting-edge research, and projects with external partners, addressing both the exciting potential and the challenges of disruptive digital transformation across all spheres of life.</p> <p>Part of a diverse and interdisciplinary pathway community, you will engage in exciting, impactful collaborative project work in innovative formats on areas that matter most to you. Engaged in real-world scenarios as digital citizens, you will expand, deepen, and mobilise knowledge and skills to drive inclusive, empowering, and sustainable change at local and global levels.</p> <p><b>Level 4 Module: A digital life: challenges and opportunities (GCP-10005)</b></p> <p><b>Level 5 Module: Digital World - People, Spaces, and Data (GCP-20005)</b></p> <p><b>Level 6 Module: Digital Citizenship and Sustainable Futures (GCP-30005)</b></p>
<p><b>Climate Change &amp; Sustainability</b></p>	<p>Through the Climate Change &amp; Sustainability pathway you will develop the skills, understanding and drive to become agents of change to tackle climate change and wider sustainability challenges.</p> <p>You will hear from international partners to learn about climate change and sustainability in different international contexts; lead your own projects to drive real change in your communities; and be part of educating and supporting others to help achieve a more sustainable future.</p> <p><b>Level 4 Module: Climate Change and Sustainable Futures: Global Perspectives (GCP-10009)</b></p> <p><b>Level 5 Module: Climate Change and Sustainability: Action and Activism (GCP-20009)</b></p> <p><b>Level 6 Module: Skills for Sustainability (GCP-30009)</b></p>
<p><b>Social Justice</b></p>	<p>The Social Justice pathway is based upon a transformative methodology which centres the student's role as 'agents of change' to reflect upon decolonising and feminist, perspectives on social justice, to forge critical outputs to transform the Sustainable Development Goals.</p> <p>You will develop research and engagement skills with local, national, and international partners from Universities, NGOs, International Human Rights frameworks. You will engage with key societal challenges focused upon the Sustainable Development Goals, to develop an intersectional response from identity-based perspectives on race, gender, sexualities and disabilities. The pathway will allow you to monitor and critically evaluate policies and human rights treaties, and produce and disseminate digitally fluent, international and sustainable project findings.</p> <p><b>Level 4 Module: Reflections on Social Injustices, Past and Present (GCP-10003)</b></p> <p><b>Level 5 Module: Strategic Interventions for Social Justice (GCP-20003)</b></p> <p><b>Level 6 Module: Transforming Social Justice; Global Perspectives (GCP-30003)</b></p>



<p><b>Enterprise &amp; the Future of Work</b></p>	<p>In order to meet the challenges set out in the UN's Sustainable Development Goals we need to understand the power of enterprise and prepare for the future contexts of work, creativity and disruption. By providing you with the skills, knowledge and understanding of global challenges this pathway will prepare you to be part of future-facing solutions. This module will support you in developing creative, original thinking, allowing you to collaborate on projects that persuade and effect change, setting you up to thrive in future environments of work and innovation.</p> <p><b>Level 4 Module: Enterprise and the Future of Work (GCP-10007)</b></p> <p><b>Level 5 Module: Enterprise and the Future of Work: Collaborate to Innovate (GCP-20007)</b></p> <p><b>Level 6 Module: Enterprise and the Future of Work: Designing Change (GCP-30007)</b></p>
<p><b>Global Health Challenges</b></p>	<p>By taking the global health challenge pathway you will develop solutions to improve the health and quality of life for particular people and communities, engaging with these groups to co-design interventions.</p> <p>This pathway will provide you with skills that go beyond a focus on health and will allow you to develop your ability to work in a team and lead change in society. The knowledge, skills and work experience will complement your core degree and enhance your career opportunities and graduate aspirations.</p> <p><b>Level 4 Module: Key concepts and challenges in global health (GCP-10001)</b></p> <p><b>Level 5 Module: Using Evidence to Improve Global Health (GCP-20001)</b></p> <p><b>Level 6 Module: Working to Improve Global Health (GCP-30001)</b></p>

<p><b>Languages &amp; Intercultural Awareness</b></p>	<p>Communication within and across cultures is inseparable from language, and development of intercultural awareness can enable you to actively contribute to the shaping of an international future. The Language and Intercultural Awareness pathway allows you to engage in genuine interdisciplinary and international exchange and to understand and explore the link between language, culture and communication. Each of the strands we offer provides you with skills and direct experience for active engagement in working to face global challenges.</p> <p><b>The Language Specialist:</b> Become a specialist in one of our languages and graduate with a degree title that includes '... with competency in (Language)' or '... with advanced competency in (Language)'.</p> <p><b>The Language Taster:</b> Explore a new language every year.</p> <p><b>The Certificate in TESOL</b> (Teaching English to Speakers of Other Languages): <b>(NB: only available if starting from Level 4)</b> Enhance your undergraduate degree by studying the Trinity College Certificate in Teaching English to Speakers of Other Languages (TESOL). As an internationally recognised qualification, you can teach around the world, enabling you to travel whilst helping people develop their English Language Skills. You will also develop many transferable skills which will enhance your future employability.</p> <p><b>The Intercultural Explorer:</b> Through an interdisciplinary understanding of intercultural communication - as both an academic discipline and as a tool to promote and engage in global activity, you will explore the concept of culture. Module content and assessments allow you to examine in-depth the role of both culture and language in, for example, the UN sustainability goals.</p> <p><b>Modules available:</b></p> <p><b>The Language Specialist:</b></p> <p>Any Semester 1 Language Module (the level at which you enter will be determined by your previous language learning experiences).</p> <p><b>The Language Taster:</b></p> <p>Any Semester 1 Language Module (the level at which you enter will be determined by your previous language learning experiences)</p> <p><b>The Certificate in TESOL (NB: only available if starting from Level 4):</b></p> <p>ENL-10053 TESOL 1</p> <p>ENL-20007 TESOL 2</p> <p>ENL-30009 TESOL 3</p> <p><b>The Intercultural Explorer:</b></p> <p>ENL-10057 The stories we live by</p> <p>ENL-20009 Who do you think you are?</p>
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Information on Global Challenge Pathways can be found here:  
<https://www.keele.ac.uk/study/undergraduate/globalchallengepathways/>

## Learning Outcomes

The table below sets out what students learn in the programme and the modules in which that learning takes place. Details of how learning outcomes are assessed through these modules can be found in module specifications.

<b>Subject Knowledge and Understanding</b>	
<b>Learning Outcome</b>	<b>Module in which this is delivered</b>
Computational thinking including its relevance to everyday life.	All modules
The scientific method and its applications to problem solving in this area.	All modules
Essential facts, concepts, principles and theories relating to Computing and computer applications as appropriate to the programme of study.	All modules
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.	All modules except Fundamentals of Computing
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.	All modules except Fundamentals of Computing
Critical evaluation and testing: analyse the extent to which a computer-based system meets the criteria defined for its current use and future development.	Communication, Confidence and Competence; Introduction to Interaction Design; Database Systems; Software Engineering; Software Development Management; Advanced Web Technologies; Individual Study Topic in Computer Science
Methods and tools: deploy appropriate theory, practices and tools for the specification, design, implementation and evaluation of computer-based systems.	All modules except Fundamentals of Computing
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.	All modules except Programming I - Programming Fundamentals; Fundamentals of Computing; Computer Animation and Multimedia; Introduction to Algorithms; Programming II - Data Structures & Algorithms; Advanced Programming Practices; Mobile Application Development; Web Technologies; Database Systems; Computational and Artificial Intelligence I; Communications and Networks; Games Computing; Computational and Artificial Intelligence II

<b>Subject Specific Skills</b>	
<b>Learning Outcome</b>	<b>Module in which this is delivered</b>
Specify, design and construct reliable, secure and usable computer-based systems.	All modules except Fundamentals of Computing, Introduction to Algorithms, Computational and Artificial Intelligence I, Computational and Artificial Intelligence II
Evaluate systems in terms of quality attributes and possible trade-offs presented within the given problem.	Communication, Confidence and Competence; Introduction to Interaction Design; Mobile Application Development; Database Systems; Software Engineering; Software Development Management; Third Year Double Project - ISP; Advanced Web Technologies; Individual Study Topic in Computer Science
Plan and manage projects to deliver computing systems within constraints of requirements, timescale and budget.	All modules except Fundamentals of Computing, Communications and Networks
Recognise any risks and safety aspects that may be involved in the deployment of computing systems within a given context.	Communication, Confidence and Competence; Advanced Programming Practices; Mobile Application Development; Web Technologies; Database Systems; Software Engineering; Communications and Networks; Software Development Management; Advanced Databases and Applications; Third Year Double Project - ISP; Advanced Web Technologies; Individual Study Topic in Computer Science; Cyber security
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.	All modules except Fundamentals of Computing, Communications and Networks
Critically evaluate and analyse complex problems, including those with incomplete information, and devise appropriate solutions, within the constraints of a budget.	Communication, Confidence and Competence; Introduction to Interaction Design; Computer Animation and Multimedia; Introduction to Algorithms; Programming II - Data Structures & Algorithms; Advanced Programming Practices; Mobile Application Development; Web Technologies; Database Systems; Software Engineering; Communications and Networks; Software Development Management; Advanced Databases and Applications; Games Computing; Third Year Double Project - ISP; Advanced Web Technologies; Individual Study Topic in Computer Science

<b>Key or Transferable Skills (graduate attributes)</b>	
<b>Learning Outcome</b>	<b>Module in which this is delivered</b>
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.	All modules
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.	Communication, Confidence and Competence; Introduction to Interaction Design; Mobile Application Development; Web Technologies; Database Systems; Software Engineering; Computational and Artificial Intelligence I; Communications and Networks; Software Development Management; Advanced Databases and Applications; Games Computing; Third Year Double Project - ISP; Computational and Artificial Intelligence II; Advanced Web Technologies; Cyber Security; Individual Study Topic in Computer Science
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.	Communication, Confidence and Competence; Introduction to Interaction Design; Software Engineering; Third Year Double Project - ISP; Individual Study Topic in Computer Science
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).	All modules
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.	Communication, Confidence and Competence; Software Engineering; Software Development Management
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.	Communication, Confidence and Competence; Introduction to Interaction Design; Mobile Application Development; Web Technologies; Database Systems; Software Engineering; Communications and Networks; Software Development Management; Advanced Databases and Applications; Advanced Web Technologies; Individual Study Topic in Computer Science; Cyber security
Sustainability: recognising factors in environmental and societal contexts relating to the opportunities and challenges created by computing systems across a range of human activities.	Software Engineering; Software Development Management; Individual Study Topic in Computer Science

## 9. Final and intermediate awards

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

<b>Honours Degree</b>	360 credits	<p>You will require at least 120 credits at levels 4, 5 and 6</p> <p>You must accumulate a minimum of 180 credits in Computer Science, with at least 60 credits at each level of study (Levels 4, 5 and 6) in Computer Science. Your degree title will be 'subject X and subject Y'.</p> <p>If you choose to study one Principal subject in your final year of study a minimum of 90 credits in that subject is required. Your degree title will be 'subject X with subject Y'.</p>
<b>Diploma in Higher Education</b>	240 credits	You will require at least 120 credits at level 4 or higher and at least 120 credits at level 5 or higher
<b>Certificate in Higher Education</b>	120 credits	You will require at least 120 credits at level 4 or higher

**International Year option:** in addition to the above students must pass a module covering the international year in order to graduate with a named degree including the 'international year' wording. Students who do not complete, or fail the international year, will be transferred to the three-year version of the programme.

**Work Placement Year option:** in addition to the above students must pass a non-credit bearing module covering the work placement year in order to graduate with a named degree including the 'with Work Placement Year' wording. Students who do not complete, or fail the work placement year, will be transferred to the three-year version of the programme.

## 10. How is the Programme Assessed?

The wide variety of assessment methods used on this programme 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 on your programme:

- **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
- **Oral presentations and reports** assess a student's ability to communicate their knowledge and understanding, both visually and orally, to both general and academic audiences

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

	<b>Scheduled learning and teaching activities</b>	<b>Guided independent Study</b>	<b>Placements</b>
<b>Year 1 (Level 4)</b>	20%	80%	0%
<b>Year 2 (Level 5)</b>	31.2%	68.4%	0.4%
<b>Year 3 (Level 6)</b>	18%	80.8%	1.2%

## 12. Accreditation

This programme does not have accreditation from an external body.

## 13. University 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/>

If this programme has any exemptions, variations or additions to the University Regulations these will be detailed in an Annex at the end of this document titled 'Programme-specific regulations'.

## 14. What are the typical admission requirements for the Programme?

See the relevant course page on the website for the admission requirements relevant to this programme: <https://www.keele.ac.uk/study/>

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.

### English for Academic Purposes

Please note: All new international students entering the university will provide a sample of Academic English during their registration. Using this sample, the Language Centre may allocate you to an English language module which will become compulsory. This will replace any GCP modules. *NB:* students can take an EAP module only with the approval of the English Language Programme Director and are not able to take any other Language modules in the same academic year.

English Language Modules at Level 4:

- Business - ENL-90003 Academic English for Business Students (Part 1); ENL-90004 Academic English for Business Students (2)
- Science - ENL-90013 Academic English for Science Students
- General - ENL-90006 English for Academic Purposes 2; ENL-90001 English for Academic Purposes 3; ENL-90002 English for Academic Purposes 4

English Language Modules at Level 5:

- Business - ENL-90003 Academic English for Business Students (Part 1); ENL-90004 Academic English for Business Students (2)
- Science - ENL-90013 Academic English for Science Students
- General - ENL-90006 English for Academic Purposes 2; ENL-90001 English for Academic Purposes 3; ENL-90002 English for Academic Purposes 4

English Language Modules at Level 6:

- Business - ENL-90003 Academic English for Business Students (Part 1); ENL-90004 Academic English for Business Students (2); ENL-90005 Advanced Business English Communication
- Science - ENL-90013 Academic English for Science Students
- General - ENL-90006 English for Academic Purposes 2; ENL-90001 English for Academic Purposes 3; ENL-90002 English for Academic Purposes 4

**Recognition of Prior Learning (RPL)** 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/qa/accreditationofpriorlearning/>

## 15. How are students supported on the programme?

Support for student learning on the Programme is provided in the following ways:

- Module lecturers, teaching fellows and computing laboratory demonstrators are responsible for providing support for learning on the modules. They also give individual feedback on coursework assignments and more general feedback on examinations. Students do not normally need to make a formal appointment to meet a member of staff. Some staff have dedicated office hours when they guarantee to be in their room and available for enquiries. Other staff have an open door policy, which means students can drop in at any time. Many staff have both.
- Every student is allocated to an Academic Mentor who is responsible for reviewing and advising on students' academic progress in Computer Science and on their other Principal Programme.
- Academic Mentors also act as a first point of contact for students on non-academic issues which may affect their learning and can refer students on to a range of specialist health, welfare and financial services co-ordinated by the University's Student Services.

## 16. Learning Resources

Computer Science is taught in lecture theatres, teaching rooms and computer laboratories. The learning resources available to students on the Programme include:

- Dedicated networked PC laboratories within the School of Computing and Mathematics, which use the Microsoft Windows and GNU/Linux operating systems and provide a wide range of supported software. The School buildings are accessible 24 hours a day. Students have individual email accounts and file stores on University and School servers. Additional facilities are provided for final year projects.
- The Keele Learning Environment (KLE) which provides easy online access to a range of learning resources including lecture notes and other resources supplied in modules.
- The extensive collection of books and journals relevant to undergraduate study held in the University Library. Much of this material is also accessible online to Keele students from anywhere in the world with a University username and password.

## 17. Other Learning Opportunities

### Study abroad (semester)

Students on the programme have the potential opportunity to spend a semester abroad in their second year studying at one of Keele's international partner universities. Please note that students cannot take both a Global Challenge Pathway (GCP) and the semester abroad option.

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 who meet external eligibility criteria 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.

### **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 in the Annex for the International Year.

### **Work Placement Year**

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

## **18. Additional Costs**

Some travel costs may be incurred if an external project is undertaken in the third year. 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 travel costs.

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 costs for this programme.

## **19. Quality management and enhancement**

The quality and standards of learning in this programme are subject to a continuous process of monitoring, review and enhancement.

- The School Education Committee is responsible for reviewing and monitoring quality management and enhancement procedures and activities across the School.
- Individual modules and the programme as a whole are reviewed and enhanced every year in the annual programme review which takes place at the end of the academic year.
- The programmes are run in accordance with the University's Quality Assurance procedures and are subject to periodic reviews under the Revalidation process.

Student evaluation of, and feedback on, the quality of learning on every module takes place every year using a variety of different methods:

- The results of student evaluations of all modules are reported to module leaders and reviewed by the Programme Committee as part of annual programme review.
- Findings related to the programme from the annual National Student Survey (NSS), and from regular surveys of the student experience conducted by the University, are subjected to careful analysis and a planned response at programme and School level.
- Feedback received from representatives of students in all three years of the programme is considered and acted on at regular meetings of the Student Staff Voice Committee.

The University appoints senior members of academic staff from other universities to act as external examiners on all programmes. They are responsible for:

- Approving examination questions
- Confirming all marks which contribute to a student's degree
- Reviewing and giving advice on the structure and content of the programme and assessment procedures

Information about current external examiner(s) can be found here:

<http://www.keele.ac.uk/ga/externalexaminers/currentexternalexaminers/>

## **20. The principles of programme design**

The programme described in this document has been drawn up with reference to, and in accordance with the

guidance set out in, the following documents:

a. UK Quality Code for Higher Education, Quality Assurance Agency for Higher Education:

<http://www.qaa.ac.uk/quality-code>

b. QAA Subject Benchmark Statement: Computing (2016) <https://www.qaa.ac.uk/quality-code/subject-benchmark-statements?indexCatalogue=document-search&searchQuery=computing&wordsMode=AllWords>

c. Keele University Regulations and Guidance for Students and Staff: <http://www.keele.ac.uk/regulations>

d. Keele University Placement Learning Code of Practice:

<https://www.keele.ac.uk/policyzone/data/placementlearningcodeofpractice/>

## 21. Annex - International Year

### Computer Science with International Year

Please note: in order to be eligible to take the International Year option your other subject must also offer this option. Please refer to the information published in the course document for your other subject.

#### International Year Programme

Students registered for this Combined Honours programme may either be admitted for or apply to transfer during their period of study at Level 5 to the Combined Honours programme in both their principal subjects, providing that they meet the progression criteria outlined in this document. Students accepted onto the International Year programme will have an extra year of study 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 Combined Honours programme without the International Year 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 the International Year option.

#### International Year Programme Aims

In addition to the programme aims specified in the main body of this document, 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 55% across all modules in Semester 1 at Level 5 is normally required. Places on the International Year are then conditional on achieving an average mark of 55% across all Level 5 modules. Students with up to 15 credits of re-assessment who meet the 55% requirement may progress to the International Year. Where no Semester 1 marks have been awarded performance in 1st year marks and ongoing 2nd year assessments are taken into account)
- 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 Academic Mentor, 1st and 2nd year tutors and programme director)

Students may not register for both an International Year and a Placement Year.

#### Student Support

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

- Phone or Skype conversations with Study Abroad tutors, in line with recommended Academic Mentoring 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:

1. Describe, discuss and reflect upon the cultural and international differences and similarities of different learning environments
2. Discuss the benefits and challenges of global citizenship and internationalisation
3. Explain how their perspective on their academic discipline has been influenced by locating it within an international setting.
4. Communicate effectively in an international setting;
5. Reflect on previous learning within an international context

Please note that students on Combined Honours programmes with International Year must meet the subject-specific learning outcomes for BOTH their principal subjects.

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 International Year are subject to the programme-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 module with significant overlap to the 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](http://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 who meet external eligibility criteria 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.

## **22. Annex - Work Placement Year**

### **Computer Science with Work Placement Year**

## **Work Placement Year summary**

Students registered for this programme may either be admitted for or apply to transfer during their studies to the 'with Work Placement Year' option (NB: for Combined Honours students the rules relating to the work placement year in the subject where the placement is organised are to be followed). Students accepted onto this programme will have an extra year of study (the Work Placement Year) with a relevant placement provider after they have completed Year 2 (Level 5) at Keele.

Students who successfully complete both the second year (Level 5) and the Work Placement Year will be permitted to progress to Level 6. Students who fail to satisfactorily complete the Work Placement Year will normally revert to the 3-year programme 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 the Work Placement Year option.

## **Work Placement Year Programme Aims**

In addition to the programme aims specified in the main body of this document, the Work Placement Year aims to provide students with the opportunity to carry out a long-term work-based learning experience (minimum 30 weeks equivalent of full-time work) in the computing sector between Years 2 and 3 (Levels 5 and 6) of their degree programme. The module will be underpinned by employability skills training (as part of their preparation during year 2), reflective assessment, employer and tutor evaluation and support from academic tutors.

## **Entry Requirements for the Work Placement Year**

All students undertaking the work placement degree programme will be provided with an academic tutor, based at Keele. Students are expected to arrange their own work placement. A list of potential placements will be provided that students can apply for, with allocation being based on a competitive interview process involving the placement providers. Students are also permitted to provide their own placement option. Support will be offered throughout the placement process. This will involve support ensuring the appropriateness of the placement prior to starting the Placement Year, and email/telephone/face-to-face contact with the academic tutor.

Students have the opportunity to apply directly for the 4-year 'with work placement year' degree programme, or to transfer onto the 4-year programme at the end of Year-1 and in Year-2 at the end of Semester 1. Students who are initially registered for the 4-year degree programme may transfer onto the 3-year degree programme at any point in time, prior to undertaking the year-long work placement. Students who fail to pass the work placement year, and those who fail to meet the minimum requirements of the work placement year module, (\* or equivalent, work placement), will be automatically transferred onto the 3-year degree programme.

\* We recommend where possible students undertake a placement of between 9 - 12 months on a full-time basis to maximize academic and personal growth. However, the Faculty of Natural Sciences Work / Professional Placement Year mandates a minimum of 24 weeks in duration, ideally on a full-time basis, but no less than 21 hours per week. This enables those undertaking an unpaid placement to work on a part-time basis alongside their placement.

The criteria to be applied are:

- A good University attendance record and be in 'good academic standing'.
- Academic Performance (an average of 50% across all modules in Semester 1 at Level 5 is normally required. Places on the Work Placement Year are then conditional on achieving an average mark of 50% across all Level 5 modules. Students with up to 15 credits of re-assessment who meet the 50% requirement may progress to the Work Placement Year. Where no Semester 1 marks have been awarded performance in 1st year marks and ongoing 2nd year assessments are taken into account)
- Students undertaking work placements will be expected to complete a Health and Safety checklist prior to commencing their work experience and will be required to satisfy the Health and Safety regulations of the company or organisation at which they are based.
- (*International students only*) Due to visa requirements, it is not possible for international students who require a Tier 4 Visa to apply for direct entry onto the 4-year with Work Placement Year degree programme. Students wishing to transfer onto this programme should discuss this with student support, the academic tutor for the work placement year, and the Programme Lead. Students should be aware that there are visa implications for this transfer, and it is the student's responsibility to complete any and all necessary processes to be eligible for this programme. There may be additional costs, including applying for a new Visa from outside of the UK for international students associated with a transfer to the work placement programme.

Students may not register for both an International Year and a Work Placement Year.

## **Student Support**

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

- Regular contact between the student and a named member of staff who will be assigned to the student as their University supervisor. The University supervisor will be in regular contact with the student throughout the year, and be on hand to provide advice (pastoral or academic) and liaise with the Placement supervisor on the student's behalf if required.
- Two formal contacts with the student during the placement year: the University supervisor will visit the student in their placement organization at around the 5 weeks after placement has commenced, and then visit again (or conduct a telephone/video call tutorial) at around 15 weeks into the placement.
- Weekly supervision sessions will take place with the placement supervisor (or his/her nominee) throughout the duration of the placement.

## **Learning Outcomes**

In addition to the learning outcomes specified in the main text of the Programme Specification, students who complete the 'with Work Placement Year' option will be able to:

LO4.1 Evaluate their own employability skills (via a SWOT Analysis).

LO4.2 Create ILOs for their placement in order to develop the skills areas which they have identified as being weak or needing further enhancement.

LO4.3 Develop, through practice in the work place, the work-related skills identified through their SWOT analysis and ILOs.

LO4.4 Apply academic theory learnt as part of the taught degree to real situations in the work place.

LO4.5 Reflect on their work placement activities and experiences and evaluate the impact on their employability skills.

LO4.6 Explain how the professional computing sector operates and identify the skills required to pursue careers within the sector.

These learning outcomes will be assessed through the non-credit bearing Work Placement Year module which is assessed by a Mid-Placement Portfolio, a Final Placement Portfolio and an Oral Presentation.

### **Regulations**

Students registered for the 'with Work Placement Year' option are subject to programme-specific regulations (if any) and the University regulations. In addition, during the Work Placement Year, the following regulations will apply:

- Students undertaking the Work Placement Year must successfully complete the zero-credit rated 'Work Placement Year' module
- In order to ensure a high quality placement experience, each placement agency will sign up to a placement contract (analogous to a service level agreement).
- Once a student has been accepted by a placement organisation, the student will make a pre-placement visit and a member of staff identified within the placement contract will be assigned as the placement supervisor. The placement supervisor will be responsible for ensuring that the placement experience meets the agreed contract agreed with the University.
- The placement student will also sign up an agreement outlining his/her responsibilities in relation to the requirements of each organisation.

Students will be expected to behave professionally in terms of:

(i) conforming to the work practices of the organisation; and

(ii) remembering that they are representatives of the University and their actions will reflect on the School and have an impact on that organisation's willingness (or otherwise) to remain engaged with the placement.

### **Additional costs for the Work Placement Year**

Tuition fees for students on the Work Placement Year will be charged at 20% of the annual tuition fees for that year of study, as set out in Section 1. The Work Placement Year can be included in your Student Finance allocation; to find out more about your personal eligibility see: [www.gov.uk](http://www.gov.uk)

Students will have to bear the costs of travelling to and from their placement provider, accommodation, food and personal costs. Depending on the placement provider additional costs may include parking permits, travel and transport, suitable clothing, DBS checks, and compulsory health checks.

A small stipend may be available to students from the placement provider during the placement but this will need to be explored on a placement-by-placement basis as some organisations, such as charities, may not have any extra money available. Students should budget with the assumption that their placement will be unpaid.

Eligibility for student finance will depend on the type of placement and whether it is paid or not. If it is paid, this is likely to affect student finance eligibility, however if it is voluntary and therefore unpaid, should not affect student finance eligibility. Students are required to confirm eligibility with their student finance provider.

International students who require a Tier 4 visa should check with the Immigration Compliance team prior to commencing any type of paid placement to ensure that they are not contravening their visa requirements.

## 23. Annex - Programme-specific regulations

### Programme Regulations: Computer Science

<b>Final Award and Award Titles</b>	BSc (Hons) Computer Science BSc (Hons) Computer Science with International Year BSc (Hons) Computer Science with Work Placement Year
<b>Intermediate Award(s)</b>	Diploma in Higher Education Certificate in Higher Education
<b>Last modified</b>	December 2022
<b>Programme Specification</b>	<a href="https://www.keele.ac.uk/qa/programmespecifications">https://www.keele.ac.uk/qa/programmespecifications</a>

The University's Academic Regulations which can be found on the Keele University website (<https://www.keele.ac.uk/regulations/>)[1] apply to and regulate the programme, other than in instances where the specific programme regulations listed below over-ride them. These programme regulations list:

- *Exemptions* which are characterised by the omission of the relevant regulation.
- *Variations* which are characterised by the replacement of part of the regulation with alternative wording.
- *Additional Requirements* which set out what additional rules that apply to students in relation to this programme.

The following **exemptions, variations** and **additional requirements** to the University regulations have been checked by Academic Services and have been approved by the Faculty Education Committee.

#### A) EXEMPTIONS

The clause(s) listed below describe where an exemption from the University's Academic Regulations exists:

For the whole duration of their studies, students on this Programme are exempt from the following regulations:

- **No exemptions apply.**

## **B) VARIATIONS**

The clause(s) listed below describe where a variation from the University's Academic Regulations exists:

### **Variation 1: Transfer onto the MComp Programme**

This programme varies from Regulation C6, 2.3:

Regulation C6, paragraph 2.3 states that the rules governing eligibility for transfer onto an Integrated Masters programme shall be governed by the relevant Course Regulations.

Combined 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.

### **Additional Requirements**

The programme requirements listed below are in addition to the University's Academic Regulations:

#### **Additional requirement 1: 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.

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[1] References to University Regulations in this document apply to the content of the University's Regulatory Framework as set out on the University website here <https://www.keele.ac.uk/regulations/>.

## **Version History**

### **This document**

**Date Approved:** 04 June 2024

### ***What's Changed***

Updated for Level 5 and 6 students in 2024/25

### **Previous documents**



<b>Version No</b>	<b>Year</b>	<b>Owner</b>	<b>Date Approved</b>	<b>Summary of and rationale for changes</b>
1	2023/24	PAUL BELL	19 January 2023	
1	2022/23	EDWARD DE QUINCEY	31 January 2022	
1	2021/22	THEO KYRIACOU	08 February 2021	
1	2020/21	THEO KYRIACOU	08 February 2021	
1.1	2019/20	THEO KYRIACOU	08 February 2021	Minor correction: In the Major Route modules at L6 CSC-30001 changed to CSY-30001
1	2019/20	THEO KYRIACOU	18 December 2019	