

<b>1. Awarding body</b>	University of Surrey
<b>2. Teaching institution (if different)</b>	University Centre Farnborough at Farnborough College of Technology Hampshire Business School
<b>3. Final award</b>	BSc (Hons)
<b>4. Programme title/route/pathway</b>	BSc (Hons) Computing (Top-up)
<b>5. Subsidiary award(s) and title(s)</b>	BSc (Ordinary) Computing (Top-up)
<b>6. FHEQ Level</b>	6
<b>7. Credits and ECTS credits</b>	60 ECTS credit UK credits 120
<b>8. Name of Professional, Statutory or Regulatory Body (PSRB)</b>	None
<b>9. Date of last accreditation (if applicable)</b>	March 2011
<b>10. Mode of study</b>	Full-time and part-time
<b>11. Language of study</b>	English
<b>12. UCAS Code</b>	TBA
<b>13. QAA Subject benchmark statement (if applicable)</b>	QAA Subject Benchmark Statement Computing February 2016
<b>14. Other internal and / or external reference points</b>	Association for Computer Machinery Computing Curricula Computer Science (2013) Information Systems (2010) Software Engineering (2014)  <a href="http://www.acm.org/education/curricula-recommendations">http://www.acm.org/education/curricula-recommendations</a> The Overview Report and 2014 Curriculum for Software Engineering
<b>15. Faculty</b>	University Centre Farnborough at Farnborough College of Technology Hampshire Business School
<b>16. Programme Leader</b>	
<b>17. Date of production/revision of the specification</b>	March 2016
<b>18. Educational aims of the programme</b>	<ol style="list-style-type: none"> <li>1. Provide the opportunity for graduates to develop their computing skills to enable them to function effectively in a relevant employment setting</li> <li>2. To provide a comprehensive and well-balanced programme of academic and vocationally-focused education at Honours Degree level that enables those holding a Pearsons HND, appropriate Foundation Degree, or other equivalent level qualifications or recognised prior learning from a relevant setting, to benefit from Honours Degree level study.</li> <li>3. Provide an educational experience that allows graduates to critically examine their own work and make informed responses about further development.</li> </ol>

4. Engage students in problem solving activities designed to test their ability to analyse and enquire effectively within Computing including networking security strategies.
5. To enable students to critically evaluate arguments, assumptions and abstract concepts to develop skills to make judgement and frame questions that will lead to a solution(s) to complex problems within Computing.
6. To prepare students for careers in Computing or to progress to postgraduate study.

**19. Programme learning outcomes** – the programme provides opportunities for students to develop and demonstrate knowledge and understanding, skills, qualities and other attributes in the following areas:

Knowledge and understanding

1. Apply and evaluate Computing and associated skills appropriate to the discipline
2. Analyse a problem, and identify and define the computing requirements appropriate to investigating and developing a solution.
3. Design, implement and evaluate computer-based systems, processes, components, or programs to meet specified requirements.
4. Demonstrate an understanding of the local, national and global impacts of computing on individuals, organisations and the wider society.
5. Articulate an understanding and appreciation of the ethical and moral issues related to the computing industry and associated professions.
6. Employ various and appropriate mediums when presenting ideas or solutions to given computing scenarios and problems appropriate to the relevant vocational setting.

**Teaching and Learning Strategies and Methods**

- i. lectures
- ii. computer room practicals and workshops
- iii. individual and group project work
- iv. individual presentations
- v. group and individual tutorials

**Assessment**

- i. in-class tests and on-line tests
- ii. assessed practical work
- iii. assessed coursework / assignments
- iv. formative assessment through assignment work feedback
- v. formal examination

Skills and other attributes - Intellectual / cognitive skills

**Intellectual Abilities**

1. Demonstrate knowledge and understanding of essential facts, concepts and principles of Computing.
2. Use such knowledge and understanding in the modelling and design of computer-based systems.
3. Recognise and analyse criteria and specifications appropriate to specific computing and technology problems and plan strategies for their solution.
4. Analyse the extent to which a computer-based system meets the criteria defined for its current use and future development.
5. Deploy appropriate theory, practices and tools for the specification, design, implementation and evaluation of computer-based systems.
6. Demonstrate critical thinking in problem solving in areas specific to computing.
7. Recognise the professional, moral, ethical and legal issues involved in the application computer technology.

**Teaching and Learning Strategies and Methods**

Intellectual skills are developed through the teaching and learning programme outlined above as well as through the industrial placement.

Analysis and problem solving skills are further developed through the use of examples sheets and case study exercises with learners working either individually or in groups.

**Assessment**

This is a mix of formal examination, coursework assignments, and practical demonstrations. The overall range of assessment provides the opportunity for the student to demonstrate the ability to analyse problems and propose solutions in a clear, logical and structured manner.

Skills and other attributes - Professional practical skills

**Practical Skills**

1. The ability to critically evaluate systems in terms of their quality and commercial viability for specific computing operations or environments.
2. The ability to analyse, evaluate and where appropriate to resolve risks or safety aspects for specific computing operations or environments.
3. To deploy effectively the tools used for the construction, documentation and support of computer applications, demonstrating an understanding of the whole process.
4. To operate computing equipment and software tools effectively, taking into account their logical and physical properties.

**Teaching and Learning Strategies and Methods**

Techniques are applied in a sophisticated and industry relevant environment.

**Assessment**

Assessment will be throughout course work assignments and examinations for all modules except the Project. This will be assessed though the Project Report and a presentation.

<p>5. Identify appropriate professional conduct taking account of legal, environmental and ethical practices involved in the production, maintenance and development of computer-based solutions.</p> <p>6. Plan and manage a complex project through to a successful conclusion, meeting deadlines, producing workable deliverables and articulating the process to stakeholders in a professional manner.</p>	
<p><u>Skills and other attributes - Key / transferable skills</u></p> <ol style="list-style-type: none"> <li>1. Taking an independent and professional standpoint and be able to appropriately challenge others' views.</li> <li>2. To undertake the analysis and critique of a wide range of academic perspectives and theory.</li> <li>3. To develop relevant skills in writing academic essays and reports.</li> <li>4. Undertaking appropriate research utilising a variety of sources.</li> <li>5. Interpreting and applying information for critical analysis.</li> <li>6. Using theory and data analysis to critique, evaluate and improve existing practice.</li> <li>7. The formulation of researchable problems within a general area of concern.</li> <li>8. Managing one's own learning and development including organisational skills.</li> <li>9. Develop skills of reflection and analysis that apply to continuing professional development.</li> </ol>	<p><b>Teaching and Learning Strategies and Methods</b></p> <ol style="list-style-type: none"> <li>i. development of transferable skills is reinforced and applied throughout the programme in a progressive manner</li> <li>ii. oral presentations for both the Work Placement module and the Final Year Project</li> <li>iii. classroom and computing room activities promoting interaction at peer and tutor level</li> <li>iv. group work</li> </ol> <p><b>Assessment</b></p> <ol style="list-style-type: none"> <li>i. included as part of the overall assessment for appropriate modules</li> </ol>
<p><b>20. Programme structure</b> – including the route / pathway / field requirements, levels modules, credits, awards and further information on the mode of study.</p>	
<p>The complete programme is made up of 9 modules. Students are required to complete 5 Compulsory modules including the Dissertation. Students are required to select a further one optional module to complete the programme.</p> <p>All taught modules are worth 15 credits except for the Project module which is 45 credits. Each 15 credit module is indicative of 150 hours of learning, comprised of student contact, private study and</p>	

assessment. BSc Honours Computing requires 120 credits equivalent to QAA FHEQ Level 6. Classification of the degree is in accordance with the University of Surrey Regulations.

An exit award may be awarded to students who have accrued academic credit but wish to leave the College before completing their programme of study. The Intermediate exit award for this programme is BSc Ordinary Degree and is awarded in accordance with the University of Surrey Academic Regulations.

The programme is offered for study to full-time and part-time candidates. Full time candidates complete the award in one academic year. Part-time applicants may complete the award over a maximum of four years. The programme for part time students will be agreed prior to enrolment and will take into account the scheduling of module delivery and the coherence of the proposed sequence.

The Honours Degree consists of Compulsory and Optional modules. The Compulsory modules are each 15 credits except the Project module which is 45 credits and is scheduled in Semester 1 and 2. Candidates select a further one optional module, of 15 credits. The availability of optional modules may vary for individual cohorts according to demand and resources available.

On successful completion of the programme students may apply for professional body membership once further requirements have been met. They may also progress to taught or research Master's degrees.

**Programme adjustments (if applicable):**

Not applicable

**Programme pathways and variants:**

Although optional modules are provided, all students meet the requirements for the BSc. Hons. Computing. There are no variants in degree title offered.

FHEQ Level 6:  
Potential awards: BSc Hons Computing (Top-up) (120 credits)  
FHEQ Level 6  
BSc Ordinary Degree Computing (60 credits)

Module code	Module title	Compulsory / optional	Credit volume (credits)	Semester	Award requirements
HBS6001	Project	Compulsory	45	1&2	120 credits required for the award of BSc Hons Computing 60 credits required for the award of BSc Hons Ordinary Degree Classification for the Honours degree is in accordance with University of Surrey Regulations.
HBS6002	Advanced Networking A	Compulsory	15	1	
HBS6003	Systems Integration	Compulsory	15	1	
HBS6004	Database Administration	Optional	15	2	
HBS6005	Real Time and Embedded Systems	Compulsory	15	2	
HBS6006	Advanced Web Management	Optional	15	1&2	
HBS6007	Artificial Intelligence	Optional	15	1	
HBS6008	Cyber security	Compulsory	15	2	
HBS6009	Advanced Networking B	Optional	15	2	

How many optional modules must a student choose in order to achieve the necessary amount of credits to achieve this level?

1 module	
Choose 1 from the 4 listed modules.	
<b>21. Opportunities for placements / work-related learning / collaborative activity – please indicate if any of the following apply to your programme</b>	
Data supplied by an external source for student analysis which contributes to an assessment	
Guest / external / associate lecturer (please detail the extent of their contribution, i.e. do they mark?)	✓ (but do not assess)
Professional Training Year (PTY)	
Placement, study or work placement outside of the PTY (please indicate if this is one day, one month, six months, a year etc)	
Clinical Placements (that are not part of the PTY Scheme)	
ERASMUS Study (that is not taken during Level P)	
Study exchanges (that are not part of the ERASMUS Scheme)	
Dual Degree	
Joint Degree	
Further information	
The Project module provides opportunities to for students to research and to address industry-related solutions. This may involve an element of collaboration in a relevant industry setting.	
<b>22. Criteria for admission</b>	
<p>Applicants will be considered individually and may be interviewed to determine interest and commitment. Applicants should have IELTS 6.5 to enable them to achieve at Honours Degree level. We expect all applicants to demonstrate a high level of commitment and motivation for the programme.</p> <p>The normal entry requirement will be a Pearson HND Computing or a validated Foundation Degree from an appropriate subject area preferably with an overall grade of Merit or higher. Candidates with an overall grade of Pass may be admitted at the discretion of the Programme Leader, normally following interview and satisfactory references from the leader of the relevant programme. Any such admissions may be subject to satisfactory completion of additional bridging studies designed to address gaps in the candidate's knowledge and/or to provide evidence of his/her capacity to achieve at Honours level.</p> <p>If bridging studies are deemed necessary for acceptance on to the programme, students may be asked to complete a research project that will be supported through the summer, prior to attending formal classes. We reserve the right to make an additional charge for this activity.</p> <p>The University of Surrey Regulations on recognition of prior learning (RPL) apply in full. Applications from mid-career professionals from relevant settings are welcomed. An interview and satisfactory references will be required from the current or most recent employer.</p>	
<b>23. Assessment regulations</b>	
<p>Please click on the following link for the full Regulations  <a href="http://www.surrey.ac.uk/quality_enhancement/regulations/index.htm">http://www.surrey.ac.uk/quality_enhancement/regulations/index.htm</a></p> <p>All programmes within the University of Surrey adhere to the Regulations. All taught programmes also reference and follow the <i>Code of practice for assessment and feedback</i>.</p>	

## **24. Support for students and their learning**

### **Support Sessions**

In addition to the taught modules, students on this programme will have the benefit support provision as follows:

### **Tutorials**

Tutorials are regarded as an essential part of the Learning and Teaching strategy. Four 'types' of tutorial are embedded in programmes within the School:

- Post Induction tutorial
- Group Tutorials
- Tutorial requested by students (pastoral and academic)
- 'Fixed Point' Academic Tutorials (academic)
- Industry visiting speakers

### **Study Skills**

Study Skills development at a level, appropriate for level 6 study, forms an integral part of the support offered by module and programme tutors. There will be a particular focus on research skills and where appropriate vocational and employability skills required by students.

### **Moodle**

Moodle is the virtual learning environment (VLE) provided for learners. Moodle is a web-based applications that can be accessed using an internet browser. The application is hosted on a server within the College but it can be accessed from anywhere in the world, connection permitting.

Access to Moodle will enable students to benefit from peer group support via the forum facility. Moodle will also provide tutors with a facility for communicating group messages and providing programme-related updates. Moodle includes some of the following features:

- Creation and management of information;
- Social networking capabilities
- Quizzes and tests;
- Assignment management with converged TurnItIn access;
- Timetables and assessment schedules;
- News and information.

### **Cross College Support**

The college provides a wide range of support from pastoral care, academic study skills, finance, learning support, careers and counselling. This is outlined by personal tutors and on media such as posters and the student intranet.

### **Blended Learning**

The course team continues to extend the material available to students via the Moodle VLE. Theory notes, on-line exercises and assessments are available for most modules and are supported by tutors in person and via email, telephone.

**25. Quality management** – indications of quality and the methods for evaluating and improving quality

The College's policy on Student Engagement and quality enhancement and development is followed. An annual cycle of self-assessment and quality improvement planning takes place. This is informed by feedback from students (via on-course survey; NSS; module survey; student representation on Board of Study and student representation on School HE Forum), programme team and external stakeholders (via External Examiner's Report and informal feedback from employers)

**26. Further information**

Further information can be found on our webpages and within the Programme Handbook, which is provided on entry to the programme.

The *Regulations* and *Codes of practice* for taught programmes can be found at

[http://www.surrey.ac.uk/quality\\_enhancement/regulations/index.htm](http://www.surrey.ac.uk/quality_enhancement/regulations/index.htm)

[http://www.surrey.ac.uk/quality\\_enhancement/standards/index.htm](http://www.surrey.ac.uk/quality_enhancement/standards/index.htm)