

Programme Specification

Awarding body:	University of Surrey	
Teaching institution (if different):	University Centre Farnborough at Farnborough College of Technology	
Final award:	BSc (Hons)	
Final award (if different):		
Programme/pathway title:	BSc (Hons) Computing (Top Up)	
Subsidiary award(s) and title(s):	Award	Title
	Ordinary Degree	BSc Computing (Top Up)
FHEQ Level:	Level 6	
Credits:	120	
ECTS credits:	60	
Name of Professional, Statutory or Regulatory Body (PSRB):	N/A	
Mode of study and route code:	Mode of study	Please tick applicable
	Full-time	☒
	Full-time with PTY	☐
	Part-time	☒
	Distance learning	☐
	Short course	☐
HESCOs Code:		
Start date (date/month/year):	05/09/2022	
End date (date/month/year):	30/07/2022	
Length of programme in months:	10	
QAA Subject benchmark statement (if applicable):	Computing 2019	
Other internal and / or external reference points:	Association for Computer Machinery Computing Curricula Computer Science (2020) Information Systems (2020)	

	Software Engineering (IEEE) (2019) http://www.acm.org/education/curricula-recommendations The Overview Report and 2019 Curriculum for Software Engineering									
Faculty and Department/School:	ECS									
Programme Leader:	Michelle Chapman									
Date of production/revision of the specification:	08/03/2022									
Educational aims of the programme:										
• Provide the opportunity for graduates to develop their computing skills to enable them to function effectively in a relevant employment setting • 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. • Provide an educational experience that allows graduates to critically examine their own work and make informed responses about further development. • Engage students in problem solving activities designed to test their ability to analyse and enquire effectively within Computing including networking security strategies. • 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. • To prepare students for careers in Computing or to progress to postgraduate study.										
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:										
Learning Outcome	K	C	P	T	Optional Ref	Cert HE / PG Cert	Dip HE / PG Dip	BSc (Ord)	BSc (Hons)	
Apply and evaluate Computing and associated skills appropriate to the discipline	☒	☐	☐	☐		☐	☐	☒	☒	
Analyse a problem, and identify and define the computing requirements appropriate to investigating and developing a solution	☒	☐	☐	☐		☐	☐	☒	☒	
Design, implement and evaluate computer-based systems, processes, components, or programs to meet specified requirements	☒	☐	☐	☐		☐	☐	☐	☐	

Demonstrate an understanding of the local, national and global impacts of computing on individuals, organisations and the wider society	☒	☐	☐	☐		☐	☐	☐	☐
Articulate an understanding and appreciation of the ethical and moral issues related to the computing industry and associated professions	☒	☐	☐	☐		☐	☐	☒	☒
Employ various and appropriate mediums when presenting ideas or solutions to given computing scenarios and problems appropriate to the relevant vocational setting	☒	☐	☐	☐		☐	☐	☐	☒
Demonstrate knowledge and understanding of essential facts, concepts and principles of Computing	☐	☒	☐	☐		☐	☐	☒	☒
Use such knowledge and understanding in the modelling and design of computer-based systems	☐	☒	☐	☐		☐	☐	☒	☒
Recognise and analyse criteria and specifications appropriate to specific computing and technology problems and plan strategies for their solution	☐	☒	☐	☐		☐	☐	☐	☒
Analyse the extent to which a computer-based system meets the criteria defined for its current use and future development	☐	☒	☐	☐		☐	☐	☒	☒
Deploy appropriate theory, practices and tools for the specification, design, implementation, and evaluation of computer-based systems	☐	☒	☐	☐		☐	☐	☒	☒
Demonstrate critical thinking in problem solving in areas specific to computing	☐	☒	☐	☐		☐	☐	☒	☒
Recognise the professional, moral, ethical, and legal issues involved in the application computer technology	☐	☒	☐	☐		☐	☐	☐	☒
The ability to critically evaluate systems in terms of their quality and commercial viability for specific computing operations or environments.	☐	☐	☒	☐		☐	☐	☒	☐
The ability to analyse, evaluate and where appropriate to resolve risks or safety aspects for specific computing operations or environments.	☐	☐	☒	☐		☐	☐	☒	☒
To deploy effectively the tools used for the construction, documentation and support of computer applications, demonstrating an understanding of the whole process.	☐	☐	☒	☐		☐	☐	☒	☒
To operate computing equipment and software tools effectively, taking into account their logical and physical properties	☐	☐	☒	☐		☐	☐	☒	☒

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.

FHEQ Level 6: Potential awards –

Module code	Module title	Core / compulsory / optional	Credits	Period (Semester 1, Semester 2, Year Long or Across Academic Years)	Qualifying Conditions
COMP601	Project	Compulsory	45	1 & 2	
COMP602	Advanced Networks	Compulsory	15	1 & 2	
COMP603	Systems Integration	Compulsory	15	1	
COMP604	Real-Time Embedded Systems	Compulsory	15	1	
COMP605	Artificial Intelligence	Compulsory	15	1	
COMP606	Cyber Security	Compulsory	15	1 & 2	
How many optional modules must a student choose in order to achieve the necessary amount of credits to achieve this level?		N/A			

Opportunities for placements / work-related learning / collaborative activity – please indicate if any of the following apply to your programme

Associate Tutor(s)/Guest Speakers/Visiting Academics:	☒
Professional Training Year (PTY):	☐
Placement(s) (study or work that are not part of the PTY or Erasmus Scheme):	☐
Clinical Placement(s) (that are not part of the PTY Scheme):	☐
ERASMUS Study (that is not taken during Level P):	☐
Study exchange(s) (that are not part of the ERASMUS Scheme):	☐
Dual degree:	☐

Programme set up questions

Source of funding for the programme (eg NHS where not student/employer funded):	
Collaborating organisation (eg NHS providing significant input into a programme):	
Location of study (eg if distance learning / overseas centre):	

Registered body (where the award is to be mandatory regulated by HCPC, RCVS or NMC etc – not optionally regulated e.g. accreditation/registration is an option):	
Closed programme (is the programme specifically to be offered privately to a group of students, e.g. only employees of companies or organisations that are meeting the costs of the students studies):	
Other Information:	
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. 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. 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.	
Quality assurance:	
The <i>Regulations</i> and <i>Codes of Practice</i> for taught programmes can be found at: https://www.surrey.ac.uk/quality-enhancement-standards	