



UNIVERSITY OF  
PORTSMOUTH

## **COURSE SPECIFICATION**

### ***BSc (Hons) Cyber Security and Forensic Computing***

**Academic Standards, Quality and Partnerships  
Department of Student and Academic Administration**

**March 2018**

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# COURSE SPECIFICATION

Please refer to the [Course Specification Guidance Notes](#) for guidance on completing this document.

<b>Course Title</b>	<b><i>Cyber Security and Forensic Computing</i></b>
Final Award	<i>BSc (Hons) Cyber Security and Forensic Computing</i>
Exit Awards	<i>CertHE, DipHE, BSc, BSc (Hons)</i>
Course Code / UCAS code (if applicable)	<i>C2753S</i>
Mode of study	<i>Full time</i>
Mode of delivery	<i>Campus</i>
Normal length of course	<i>3 years, 4 years with placement</i>
Cohort(s) to which this course specification applies	<i>from September 2019 intake onwards</i>
Awarding Body	<i>University of Portsmouth</i>
Teaching Institution	<i>University of Portsmouth</i>
Faculty	<i>Faculty of Technology</i>
School/Department/Subject Group	<i>School of Computing</i>
School/Department/Subject Group webpage	<a href="http://www.port.ac.uk/school-of-computing/">http://www.port.ac.uk/school-of-computing/</a>
Course webpage including entry criteria	<a href="https://www.port.ac.uk/study/courses/bsc-hons-cyber-security-and-forensic-computing">https://www.port.ac.uk/study/courses/bsc-hons-cyber-security-and-forensic-computing</a>
Professional and/or Statutory Regulatory Body accreditations	
<a href="#">Quality Assurance Agency Framework for Higher Education Qualifications (FHEQ) Level</a>	<i>Level 6</i>

This course specification provides a summary of the main features of the course, identifies the aims and learning outcomes of the course, the teaching, learning and assessment methods used by teaching staff, and the reference points used to inform the curriculum.

This information is therefore useful to potential students to help them choose the right course of study, to current students on the course and to staff teaching and administering the course.

Further detailed information on the individual modules within the course may be found in the relevant module descriptors and the Course Handbook provided to students on enrolment.

Please refer to the [Module Web Search](#) for further information on the course structure and modules.

## Educational aims of the course

While there are many professional training courses in the cyber security and forensics domain, each concerned with a single element of the profession, this BSc (Hons) Cyber Security and Forensic Computing degree has been designed to prepare students and enhance their ability to work professionally in a number of associated disciplines.

Graduates will be conversant with technical, legal and social aspects of the civil and criminal activities used in the abuse of digital technology. Graduates from this course may aim for a career in the forensic industry, law enforcement, penetration testing, cyber security analyst or developer, as a specialist in the police force or as a systems security analyst either for a technical or a commercial organisation. Alternatively, students may wish to continue study at postgraduate level.

In addition, and more generally, the course aims to develop within individuals a level of understanding, knowledge and skills to engage in offensive and defensive cyber security, analyse penetrated systems and secure them. Furthermore, to seize, secure and analyse digital media for the purposes of forensic examinations.

- Provide a challenging, stimulating and self-rewarding study environment.
- Develop a range of key skills by means of opportunities provided in the study units.
- Accommodate student needs in relation to maximising their career potential by enabling them to develop knowledge, understanding and skills in their chosen subject area.
- Promote career aspirations by including study topics on general professional practice.

## Course Learning Outcomes and Learning, Teaching and Assessment Strategies

The [Quality Assurance Agency for Higher Education \(QAA\)](#) sets out a national framework of qualification levels, and the associated standards of achievement are found in their [Framework for Higher Education Qualifications](#) document.

The Course Learning Outcomes for this course are outlined in the tables below.

### A. Knowledge and understanding of:

LO number	Learning outcome	Learning and Teaching methods	Assessment methods
A1	<i>Techniques required for seizure, preservation, analysis and presentation of digital evidence.</i>	<i>Lectures and Lab work</i>	<i>Reports Examinations</i>
A2	<i>The core principles of computing including databases, network specification and design.</i>	<i>Lectures and Lab work</i>	<i>Reports Examinations</i>
A3	The principles and techniques for conducting forensic investigations, the legal responses to cybercrime and investigations in their social, historical, organisational and global context.	<i>Lectures and Lab work</i>	<i>Reports Examinations</i>
A4	Information security and cryptography principles and concepts, the protection of digital data from loss and corruption and information systems design and component infrastructure.	<i>Lectures and Lab work</i>	<i>Reports Examinations</i>
A5	Legal and ethical considerations of codes of conduct	<i>Lectures and Lab</i>	<i>Reports</i>

	and practice.	work	Examinations
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Add additional rows as required.

**B. Cognitive (Intellectual or Thinking) skills, able to:**

LO number	Learning outcome	Learning and Teaching methods	Assessment methods
B1	<i>Develop general abilities of an intellectual, analytical, creative and problem-solving nature.</i>	All	All
B2	<i>Evaluate a range of tools developed to infiltrate digital platforms.</i>	Lectures and Lab work	Reports Examinations
B3	Evaluate risk situations and determine mechanisms to mitigate the risk.	Lectures and Lab work	Reports Examinations
B4	Apply professional codes of conduct and appreciate the ethical considerations that underpin them.	Lectures and Lab work	Reports Examinations
B5	Develop critical skills with regard to literature searching, appraising and evaluating from a variety of sources and synthesise the results.	Lectures and Seminars	Essays and Reports

**C. Practical (Professional or Subject) skills, able to:**

LO number	Learning outcome	Learning and Teaching methods	Assessment methods
C1	<i>Select effective and productive technical/legal/business methods and tools for the successful investigation and evidence presentation.</i>	Lectures and Lab work	Reports Examinations
C2	<i>Assess and plan to mitigate risks to digital information.</i>	Lectures and Lab work	Reports Examinations
C3	Assess cryptanalytic techniques as part of digital evidence extraction.	Lectures and Lab work	Reports Examinations
C4	Appraise security threats to systems and networks	Lectures and Lab work	Reports Examinations
C5	Articulate the use of evidence in legal proceedings	Court Simulation	Reports Examinations

Add additional rows as required.

**D. Transferrable (Graduate and Employability) skills, able to:**

LO number	Learning outcome	Learning and Teaching methods	Assessment methods
D1	<i>Communicate effectively in writing, speaking and in appropriate forms of presentation.</i>	Lectures and Seminars	Reports and Essays
D2	<i>Read and understand documents related to digital</i>	Lectures and Lab work	Reports Examinations

	<i>evidence, security and criminology.</i>		
D3	Use information technology to handle data and simulations to assist with digital examination and data capture.	<i>Lectures and Lab work</i>	<i>Reports Examinations</i>
D4	Assess problem domains and formulate appropriate problem solving strategies.	<i>Lectures and Lab work</i>	<i>Reports Examinations</i>
D5	Demonstrate a professional capability, with a global understanding, in an investigation setting and work in teams to achieve goals.	<i>Lectures and Lab work</i>	<i>Reports</i>

*Add additional rows as required.*

## Academic Regulations

The current University of Portsmouth [Academic Regulations](#) will apply to this course.

## Support for Student Learning

The University of Portsmouth provides a comprehensive range of support services for students throughout their course, details of which are available at the [MyPort](#) student portal.

## Evaluation and Enhancement of Standards and Quality in Learning and Teaching

The University of Portsmouth undertakes comprehensive monitoring, review and evaluation of courses within clearly assigned staff responsibilities. Student feedback is a key feature in these evaluations, as represented in our [Policy for Listening to and Responding to the Student Voice](#) where you can also find further information.

## Reference Points

The course and outcomes have been developed taking account of:

*Insert additional reference points or delete as required*

- [University of Portsmouth Curriculum Framework Specification](#)
- [University of Portsmouth Education Strategy 2016 - 2020](#)
- [University of Portsmouth Code of Practice for Work-based and Placement Learning](#)
- [Quality Assurance Agency UK Quality Code for Higher Education](#)
- [Quality Assurance Agency Qualification Characteristic Statements](#)
  - [Quality Assurance Agency Subject Benchmark Statement](#) for Computing Subject (C).
- [Quality Assurance Agency Framework for Higher Education Qualifications](#)
- Requirements of Professional and/or Statutory Regulatory Bodies: British Computer Society (BCS).
- Vocational and professional experience, scholarship and research expertise of the University of Portsmouth's academic members of staff
- National Occupational Standards

## Disclaimer

The University of Portsmouth has checked the information provided in this Course Specification and will endeavour to deliver this course in keeping with this Course Specification. However, changes to the course may sometimes be required arising from annual monitoring, student feedback, and the review and update of modules and courses.

Where this activity leads to significant changes to modules and courses there will be prior consultation with students and others, wherever possible, and the University of Portsmouth will take all reasonable steps to minimise disruption to students.

It is also possible that the University of Portsmouth may not be able to offer a module or course for reasons outside of its control, for example, due to the absence of a member of staff or low student registration numbers. Where this is the case, the University of Portsmouth will endeavour to inform applicants and students as soon as possible, and where appropriate, will facilitate the transfer of affected students to another suitable course.

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## Document details

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