



## **Module Specification**

### **Information Security**

Version: 2023-24, v2.0, 19 Jul 2023

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## Part 1: Information

**Module title:** Information Security

**Module code:** UFCFHJ-15-M

**Level:** Level 7

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Computer Sci & Creative Tech

**Partner institutions:** None

**Field:** Computer Science and Creative Technologies

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** Not applicable

**Features:** Not applicable

**Educational aims:** See Learning Outcomes

**Outline syllabus:** Foundational: information security principles, information risk; threats and vulnerabilities

Key information security issues: regulation; privacy; civil liberties; intellectual property and cybercrime

Information security management: ethics; frameworks and policies; secure software development; physical and environmental security; disaster recovery and business continuity management

Technical information security controls: authentication and authorisation; data security; network security; computer security; application security

Information security trends: governance; identity and access management; mobile and cloud security

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** The core module content is introduced through lectures. All teaching and learning activities (both scheduled and independent) are aligned with the learning outcomes. Tutorials and seminars aim to reinforce and extend the material delivered in the lectures.

Independent learning requires students to spend time in directed reading, developing research skills and in collaboration with other students in order to assimilate material presented during the contact hours to develop this further for the group assignment.

This 15 credit module requires (notionally) 150 hours of study. The module delivery is organised as follows:

Contact time: 25% for lectures, tutorials, seminars and tutor-led activities: 24 hours.  
Assimilation and development of knowledge: 50% for independent learning, both individually and within groups: 86 hours.

Assessment: 25% examination and 75% coursework: 40 hours, which approximately equates to:

Exam preparation approximately 6% (10 hours): reviewing selected module content

against examined learning outcomes.

Coursework preparation approximately 19% (30 hours): preparing group coursework for assessment.

Total study time: 150 hours.

The teaching and learning strategy enabling the examination is:

Scheduled learning:

Lectures – introduces topics (relevant to learning outcomes 1 and 4) to be assessed.

Tutorials/Seminars – tutor-led teaching and learning activities to deepen the topic(s) covered.

Independent learning:

Directed reading – self-managed study to review and deepen directed topics.

Group collaboration – student-student interaction to elaborate, reflect and apply topics.

Examination preparation:

Tutor guidance – revision session/advice.

Self-directed review of topics addressing learning outcomes 1 and 4, as covered during lectures.

The teaching and learning strategy enabling the group assignment is:

Scheduled learning:

Lectures – introduce some topics (relevant to learning outcomes 2, 3 and 5) that may be chosen by the group for use in the assessment.

Tutorials/Seminars – tutor-led teaching and learning activities to extend and deepen the topic(s) covered. Formative feedback is offered.

Independent learning:

Directed reading – self-managed study to review, deepen and extend directed topics knowledge and understanding.

Group collaboration – student-student interaction to research, elaborate, reflect and apply group chosen topics.

Assignment preparation:

Tutor guidance – group assignment advice.

Self-directed group review of assignment against learning outcomes 2, 3 and 5.

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Synthesise and evaluate the key information security principles, risks, threats and vulnerabilities faced by public or private organisations

**MO2** Analyse information security issues related to privacy, civil liberties and intellectual property, reporting at board level

**MO3** Produce a future-facing security report, complete with recommended technical controls, in a manner suited for consideration by an organisation's management board.

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 126 hours

Face-to-face learning = 24 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufcfhj-15-m.html) via the following link <https://uwe.rl.talis.com/modules/ufcfhj-15-m.html>

## Part 4: Assessment

**Assessment strategy:** The assessment strategy has been selected to enable students to demonstrate a rich understanding of the facets of information security and the correct selection and application of controls. Credit will be given for students who illustrate wider reading and understanding.

The task requires students to analyse trends and legislative environment and develop standards-compliant policies whilst taking due regard of relevant legal,

ethical and social issues. The results of this work will be written up in a report suitable for consideration at senior management level.

The report will be marked using detailed assessment criteria (published within the assignment brief).

Students will be instructed to adopt UWE advice and policies on study skills, Harvard Referencing and word count.

**Assessment tasks:****Report (First Sit)**

Description: Individual report (2,500 words)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

**Report (Resit)**

Description: Individual report (2,500 words)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Information Technology [Frenchay] MSc 2023-24

Information Technology [Villa] MSc 2023-24

Information Technology [Frenchay] MSc 2022-23

Financial Technology [Frenchay] MSc 2023-24