



Module Specification

Business Security

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Part 1: Information

Module title: Business Security

Module code: UFCFSM-15-1

Level: Level 4

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: This module provides students with an introduction to the fundamental principles of Information Technology Security and Risk Management at the organisational level.

Features: Not applicable

Educational aims: This module provides students with an introduction to the fundamental principles of Information Technology Security and Risk Management at

the organisational level.

Students will learn critical information and cyber security principles and management, including the role of hardware, software, processes, communications, applications, people and policies and procedures with respect to organisational information security.

Outline syllabus: Develop and complete a security risk assessment

Security threats and hazards to information systems or services e.g. Cloud services

Concepts of threat, hazard and vulnerability

What risk is and how risks are usually characterised (likelihood and impact)

Commonly used risk tools e.g. a risk register

Threat actors and sources, including internal, external and unintentional threats.

Inherent asymmetric nature of cyber security threats

Capability, opportunity & motive of threats, reflecting on typical hazards and example security objectives

Common vulnerabilities in computer networks and systems e.g. un-secure coding and unprotected networks

Assurance concepts i.e. difference between 'trusted' and 'trustworthy' and explain what assurance is for information security

Main approaches to assurance i.e. intrinsic, extrinsic, design & implementation, operational policy and process, giving examples of how these might be applied at different stages in the lifecycle of a system.

Technical and administrative mitigation approaches

Security models

Part 3: Teaching and learning methods

Teaching and learning methods: Introductory lectures are supported by seminars, case studies and practical workshops where appropriate. Scheduled learning could include: lectures, seminars, tutorials, demonstration, practical classes and workshops where appropriate.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion.

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

MO1 Explain how the concepts of threat, hazard and vulnerability relate to each other and lead to risk

MO2 Complete a Risk Assessment for a given organisational security case study

MO3 Describe and characterise examples of threats, describing some typical hazards. that may concern an organisation

MO4 Analyse and evaluate security threats and hazards to planned and installed information systems or services

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link

Part 4: Assessment

Assessment strategy: This module is assessed by an ePortfolio consisting of a report (1500 words) and a risk assessment.

Students will complete a 1500 research based report that discusses core cyber security theory. Apprentices are expected to demonstrate understanding of the concepts of threats, hazards and vulnerability, inherent asymmetric nature of cyber security, technical and administrative mitigation approaches, and the need for a comprehensive security model.

Additionally students will develop a risk assessment, demonstrating basic technical skills in cyber security. This will include core skills such as; creating (for a simple system) a security risk assessment, undertaking a security risk assessment, and proposing basic advice on remedies/preventive measures.

The resits for this module will follow the same format as the first assessment. A re-working of the portfolio report may be considered if appropriate, and a new scenario may be provided for the risk assessment.

Assessment tasks:

Portfolio (First Sit)

Description: An ePortfolio consisting of a report (1500 words) and a security risk assessment.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Portfolio (Resit)

Description: An ePortfolio consisting of a report (1500 words) and a security risk assessment.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Digital and Technology Solutions (Network Engineer) {Apprenticeship-UCW} [UCW]
BSc (Hons) 2023-24

Digital and Technology Solutions (Data Analyst) {Apprenticeship-UCW} [UCW] BSc
(Hons) 2023-24

Digital and Technology Solutions (Software Engineer) {Apprenticeship-UCW} [UCW]
BSc (Hons) 2023-24

Digital and Technology Solutions (Cyber Security Analyst) {Apprenticeship-UCW}
[UCW] BSc (Hons) 2023-24

Digital and Technology Solutions (Software Engineer) {Apprenticeship-GlosColl}
[GlosColl] BSc (Hons) 2023-24

Digital and Technology Solutions (Software Engineer) {Apprenticeship-UCW} [UCW]
BSc (Hons) 2022-23

Digital and Technology Solutions (Data Analyst) {Apprenticeship-UCW} [UCW] BSc
(Hons) 2022-23

Digital and Technology Solutions (Business Analyst) {Apprenticeship-UCW} [UCW]
BSc (Hons) 2022-23

Digital and Technology Solutions (Cyber Security Analyst) {Apprenticeship-UCW}
[UCW] BSc (Hons) 2022-23