



## **Module Specification**

### **Cyber Security Intelligence**

Version: 2025-26, v1.0, 19 Sep 2023

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## Part 1: Information

**Module title:** Cyber Security Intelligence

**Module code:** UFCE58-30-3

**Level:** Level 6

**For implementation from:** 2025-26

**UWE credit rating:** 30

**ECTS credit rating:** 15

**College:** College of Arts, Technology and Environment

**School:** CATE School of Computing and Creative Technologies

**Partner institutions:** None

**Field:**

**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:** Cyber security is an ever-evolving module where experts must deal with change impacted by various methods, such as the advancement of technology and changes in laws and regulation. Students will gain an understanding of the key concepts regarding incident management, including the professional, legal, ethical, and moral responsibilities that come with dealing with security incidents.

This module aims to prepare students on how to deal with an incident within the company, how to mitigate risk and the prevention of incidents.

**Features:** Not applicable

**Educational aims:** We aim to provide students with an understanding of the professional, legal, ethical, and moral aspects within cyber security. Students will be provided with a series of workshops which will allow students to engage in supported horizon scanning to identify and evaluate potential threats, opportunities, and future developments within a business scenario. Students will further be provided with an opportunity to identify and explore emerging trends within cyber security.

**Outline syllabus:** · Network monitoring and logging techniques and technologies

- How attack techniques and vulnerabilities manifest in network monitoring and logging systems
- Network monitoring and logging techniques and technologies
- The relative merits of manual and automated techniques
- The relative merits of signature-based anomaly detection and algorithmic anomaly detection
- Importance of cryptography within cyber security and the usage of practical cryptography tools (digital signatures, asymmetric and symmetric encryption, password storage)
- How to communicate with internal and/or external incident response teams, and/or customers

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

**Teaching and learning methods:** Learning and teaching will come in two main forms, lectures, and lab exercises. During lectures, theoretical aspects of the module will be discussed to provide students with an understanding of the theory behind the techniques used within cyber security.

Lab exercises are designed to utilise the theory discussed in lectures and allow students to demonstrate their understanding through guided research and practical tasks. Labs also serve as an environment for requirement clarification, facilitating

discussion and further research. Students are expected to carry out the work independently outside the classes.

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

**MO1** Demonstrate a broad understanding of system logging and auditing and how they may be used to mitigate risks facilitate a cyber security investigation.

**MO2** Demonstrate knowledge of incident responses in accordance with moral and ethical requirements within cyber security.

**MO3** Identify and understand cryptographic tools and current trends and challenges within cyber security.

**MO4** Isolate, manage and recover compromised system using a range of tools and techniques

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](http://readinglists.uwe.ac.uk) via the following link

## **Part 4: Assessment**

**Assessment strategy:** This module consists of two assessments: a 1-hour multiple choice exam based upon scenarios, followed by a series of 3 Cyber Security Laboratory assessments and summative laboratory reports.

### **ONLINE EXAM**

The first assessment consists of a 1-hour multiple-choice exam, where students will be quizzed on their knowledge of cyber security and current legislation affecting

cyber security through questions relating to a business scenario, the application of current cyber security methodologies and practical techniques, and the usage of cryptography within cyber security.

## PORTFOLIO

The second assessment will consist of a portfolio of three 1-hour practical labs and accompanying reports, one of which may be completed in a small group/pairs.

Upon completion of each lab, students will be required to complete a short summary/evaluation (approx. 600 words) evaluating the key technologies used.

The resit opportunity should follow the same format as the first assessment. Consideration should be given to re-working the practical assessments as appropriate. Where group work is not possible tasks should be scaled appropriately.

### **Assessment tasks:**

#### **Examination (Online) (First Sit)**

Description: 1 hour multiple choice exam based upon scenarios.

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3

#### **Portfolio (First Sit)**

Description: 3 x 1-hour practical security labs with completed documentation.

Weighting: 75 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO4

#### **Examination (Online) (Resit)**

Description: 1 hour multiple choice exam based upon scenarios.

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3

**Portfolio (Resit)**

Description: 3 x 1-hour practical security labs with completed documentation.

Weighting: 75 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO4

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Digital and Technology Solutions (Cyber Security Analyst) {Apprenticeship-UCW}

[UCW] BSc (Hons) 2023-24