Module Descriptor

Title	Information Security Management		
Session	2025/26	**Status**	Published
Code	COMP09086	**SCQF Level**	9
Credit Points	20	**ECTS (European Credit Transfer Scheme)**	10
School	**Computing, Engineering and Physical Sciences**		
Module Co-ordinator	H Hunter		

Summary of Module

Modern businesses face considerable competitive and regulatory pressure to understand, leverage and safeguard information. Effective information security management policy, education and technical controls will be critical to success and perhaps ultimately to survival.

This module provides an overview of the key concepts, practices and technologies of holistic information security management. In addition, students will gain practical experience in the analysis and assessment of information security in a realistic or simulated business environment.

On completion of this module, students should be able to demonstrate knowledge and understanding of the key concepts relating to information security management (confidentiality, integrity, availability, etc.), current national and international legislation and standards which impact upon information security management, frameworks and organisations which support the management of information security, the current business technology environments in which information security management must operate, and the categorisation, operation and effectiveness of different types of procedural and technical information security controls.

Undertaking this module should develop a range of graduate attributes. Students will be encouraged to develop their research and critical faculties by researching topics of interest. Information privacy is a recurring theme and should stimulate awareness of ethical issues. As part of the coursework, students will also have an opportunity to work together to solve problems and build on their communication skills.

Module Delivery Method	On-Campus[1] ☒	Hybrid[2] ☐	Online[3] ☒	Work -Based Learning[4] ☐
Campuses for Module Delivery	☐ Ayr ☒ Dumfries	☒ Lanarkshire ☐ London ☒ Paisley	☒ Online / Distance Learning ☐ Other (specify)	

Terms for Module Delivery	Term 1	☐	Term 2	☒	Term 3	☐
Long-thin Delivery over more than one Term	Term 1 – Term 2	☐	Term 2 – Term 3	☐	Term 3 – Term 1	☐

Learning Outcomes	
L1	Demonstrate a critical understanding of the concepts and principles of information security management and of its application in a business environment
L2	Demonstrate abilities and practices in the investigation, analysis and definition of requirements for a suitable and viable information security solution in a real or simulated business environment
L3	N/A
L4	N/A
L5	N/A

Employability Skills and Personal Development Planning (PDP) Skills	
SCQF Headings	**During completion of this module, there will be an opportunity to achieve core skills in:**
Knowledge and Understanding (K and U)	**SCQF 9** Understanding the development of international standards for information security management and appreciating the importance of such. Understanding the concepts and principles that underpin current and emerging approaches to information security management
Practice: Applied Knowledge and Understanding	**SCQF 9** Appreciating the practical aspects of planning for and implementing information security management in a range of businesses

[1] Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

[2] The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

[3] Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

[4] Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Generic Cognitive skills	**SCQF 9** Bringing together information from a variety of sources, including academic and industrial technical publications
Communication, ICT and Numeracy Skills	**SCQF 9** Making effective use of information retrieval systems and information technology applications to present information in an appropriate form
Autonomy, Accountability and Working with Others	**SCQF 9** Identifying and addressing personal learning needs. Working effectively, together with others in groups or teams, to achieve a time- sensitive deadline and taking a leadership role where appropriate Exercising initiative, self-management, cooperation, collaboration and self- reflection in the completion of the module coursework

Prerequisites	**Module Code**	**Module Title**
	Other	
Co-requisites	**Module Code**	**Module Title**

Learning and Teaching	
In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours. Materials will normally be presented face-to-face in a classroom but in exceptional circumstances blended learning strategies may be adopted.	
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	**Student Learning Hours** (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	24
Tutorial / Synchronous Support Activity	24
Personal Development Plan	10
Independent Study	142
Please select	
Please select	
TOTAL	200

Indicative Resources
The following materials form essential underpinning for the module content and ultimately for the learning outcomes: The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Required Resources: Internet and VLE (Moodle) materials. Extension Resources (*):

- Alexander, D. et al. (2020) Information Security Management Principles, 3rd ed., British Computer Society.

- Andress, J. (2019) Foundations of Information Security, Kindle Edition, No Starch Press.

- Ciampa, M. (2016) Security Awareness: Applying Practical Security in Your World, 5th ed., Cengage Learning.

- Harris, S. and Maymi, F. (2018) CISSP All-in-One Exam Guide, 8th ed., McGraw-Hill Education.

- Whitman, M. and Mattord, H. (2017) Principles of Information Security, 6th ed., Cengage Learning.

(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the Student Attendance and Engagement Procedure, Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

The School of Computing, Engineering and Physical Sciences considers attendance and engagement to mean a commitment to attending, and engaging in, timetabled sessions. You will scan your attendance via the scanners each time you are on-campus and you will login to the VLE several times per week. Where you are unable to attend a timetabled learning session due to illness or other circumstance, you should notify the Programme Leader that you cannot attend. Across the School an 80% attendance threshold is set. If you fall below this, you will be referred to the Student Success Team to see how we can best support your studies.

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code.

Aligned with the University's commitment to equality and diversity, this module supports equality of opportunity for students from all backgrounds and learning needs. Using the VLE, material will be presented electronically in formats that allow flexible access and manipulation of content. This module complies with University regulations and guidance on inclusive learning and teaching practice. This module has lab-based teaching and as such you are advised to speak to the Module Co-ordinator to ensure that specialist assistive equipment, support provision and adjustment to assessment practice can be put in place, in accordance with the University's policies and regulations.

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	**Computing**
Overall Assessment Results	☐ **Pass / Fail** ☐ **Graded**
Module Eligible for Compensation	☐ **Yes** ☒ **No** **If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.**
School Assessment Board	Business and Applied Computing
Moderator	S Devine
External Examiner	V Sharma
Accreditation Details	
Module Appears in CPD catalogue	☐ **Yes** ☒ **No**
Changes / Version Number	3.02

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
Class test (written) - Online assessment (individual) worth 50% of the final module mark -
Assessment 2
Report of practical/ field/ clinical work - Coursework assessment worth 50% of the final module mark.
Assessment 3
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Class test (written)	☒	☐	☐	☐	☐	50	2

Component 2							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Report of practical/ field/ clinical work	☐	☒	☐	☐	☐	50	

Component 3

Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
	☐	☐	☐	☐	☐		
Combined total for all components						100%	hours

Change Control

What	When	Who
Attendance and EDI Regulations	21/01/2025	L Cunningham