

## Summary Information

Module Code	5119COMP
Formal Module Title	Information Assurance
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

## Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

## Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	11
Tutorial	22

## Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

## Aims and Outcomes

Aims	To provide a detailed understanding of the main concepts of Information Assurance. To develop an appreciation of the process of information security management, including risk analysis, control analysis and post-event security. To develop an awareness of the standards relating to information assurance within enterprise environments, including legal and compliance issues.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Analyse security risks associated with a computer system using a standard methodology
MLO2	2	Interpret legal, governance and compliance issues for information assurance
MLO3	3	Identify success factors in information security management

### Module Content

Outline Syllabus	Concepts in Information Assurance; threats, vulnerabilities, attacks, models for discussing security, situational awareness, economic and business constraints, technology controls, human factors, ethics, 'cyber'. Risk Assessment; understanding risk factors, methods for risk assessment, standards including USA NIST and UK CESG. Information Security Management: governance and compliance, 'Quality' and the need for audit, standards including PCI-DSS and ISO 27001. Law: cyber-crime and related laws including CMA, DPA, RIPA. Related issues around 'conflicts' of privacy and free-speech. Post-event Security: attacks, incident response, disaster recovery, forensics and involvement of law enforcement.
Module Overview	
Additional Information	The term Information Assurance generally refers to the wide range of activities that information security practitioners engage in, although typically excludes the actual development of solutions through software development. In this module the focus is on the analysis, management and information governance aspects of being an IA practitioner.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Security Analysis	40	0	MLO1
Centralised Exam	Examination	60	2	MLO2, MLO3

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Bob Askwith	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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