



# Course Outline (Higher Education)

**School:** Federation Business School

**Course Title:** CYBER SECURITY

**Course ID:** BUICT1503

**Credit Points:** 30.00

**Prerequisite(s):** Nil

**Co-requisite(s):** Nil

**Exclusion(s):** Nil

**ASCED:** 029999

**Description of the Course:**

In this course, students will be introduced to real-world cybersecurity challenges that organisations face, and learn to apply knowledge and skills. The course will also introduce cyber security management concepts, including security operations, risk management, security engineering and security architecture.

**Grade Scheme:** Graded (HD, D, C, P, MF, F, XF)

**Placement Component:** No

**Supplementary Assessment:** Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks.

**Program Level:**

Level of course in Program	AQF Level of Program					
	5	6	7	8	9	10
Introductory	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Learning Outcomes:**

**Knowledge:**

**K1.** Explain legislative requirements relating to cyber security in the context of performance evidence

- K2.** Describe industry standard ICT networks and their configuration
- K3.** Describe the role of information security in an organisation, and main components of information security management frameworks to effectively manage risks
- K4.** Explain the importance of organisational network infrastructures
- K5.** Describe organisational planning process relevant to the development of Information and Communication Technology (ICT) business solutions
- K6.** Identify industry standard disaster recovery plan strategies and components

**Skills:**

- S1.** Demonstrate the ability to undertake basic security assessment, including vulnerability scanning and network/web penetration testing
- S2.** Use appropriate communication practices when communicating with team members
- S3.** Analyse and evaluate complex text to determine legislative and organisational standards, and apply information to organisational policies and processes
- S4.** Integrate information and ideas from a range of sources, utilising support materials and specialised and cohesive language in a format and style applicable to audience and organisation
- S5.** Use digital technologies and systems safely, legally and ethically when gathering, storing, accessing and sharing information, with a growing awareness of the permanence and transparency of all activities

**Application of knowledge and skills:**

- A1.** Identify and implement development opportunities for others
- A2.** Use security information to plan control methods and countermeasures to manage prescribed network security requirements on at least one occasion
- A3.** Develop policies and procedures for a work area that promote cyber security awareness and practices
- A4.** Develop a contingency plan that identifies threats and minimises down time for critical business functions
- A5.** Apply training updates to support practice or awareness in relation to different cyber security matters

**Course Content:**

Topics may include:

- Cyber security
- Cyber security awareness
- Cyber security policies and procedures
- Cyber security threats and trends impacting organisations
- Communicating cyber security practices
- Network security design
- Critical business functions and security environment
- Security policies
- Critical data and software
- Impact of business risk and threats on ICT systems
- Industry standard operational procedures
- Disaster recovery and prevention strategy

**Values:**

- V1.** Appreciate the importance of the role of information security in an organisation
- V2.** Promote the appropriate application of risk management processes within different organisational environments

### Graduate Attributes

The Federation University Federation graduate attributes (GA) are entrenched in the [Higher Education Graduate Attributes Policy](#) (LT1228). FedUni graduates develop these graduate attributes through their engagement in explicit learning and teaching and assessment tasks that are embedded in all FedUni programs. Graduate attribute attainment typically follows an incremental development process mapped through program progression. **One or more graduate attributes must be evident in the specified learning outcomes and assessment for each FedUni course, and all attributes must be directly assessed in each program**

Graduate attribute and descriptor		Development and acquisition of GAs in the course	
		Learning Outcomes (KSA)	Assessment task (AT#)
GA 1 Thinkers	Our graduates are curious, reflective and critical. Able to analyse the world in a way that generates valued insights, they are change makers seeking and creating new solutions.	K2, K3, K5, K6, S3, S4, A1, A2, A3, A5	AT1, AT2, AT3
GA 2 Innovators	Our graduates have ideas and are able to realise their dreams. They think and act creatively to achieve and inspire positive change.	K6, S2, S3, S4, A1, A4	AT1, AT2
GA 3 Citizens	Our graduates engage in socially and culturally appropriate ways to advance individual, community and global well-being. They are socially and environmentally aware, acting ethically, equitably and compassionately.	K1, K5, K6, S3, S5, A3	AT1
GA 4 Communicators	Our graduates create, exchange, impart and convey information, ideas, and concepts effectively. They are respectful, inclusive and empathetic towards their audience, and express thoughts, feelings and information in ways that help others to understand.	K1, K3, S2, S4, A1, A2, A5	AT1, AT2, AT3
GA 5 Leaders	Our graduates display and promote positive behaviours, and aspire to make a difference. They act with integrity, are receptive to alternatives and foster sustainable and resilient practices.	K1, K5, K6, S1, S4, A1, A4	AT1, AT2

### Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1, K2, K3, K4, K5, K6, S1, S2, S3, S4, A2, A3, A4	Folio of assessable tasks and activities	Folio	20-30%
K1, K3, K5, S2, S3, S4, S5, A2	Individual report	Report	30-40%
K3, K5, S2, S4, A1, A4, A5	Individual presentation	Presentation	30-40%

### Adopted Reference Style:

APA

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)