

Foundation & Diploma Programs

Subject Learning Guide

Subject Code	TSCE1ICB
Subject Name	Introduction to Cybersecurity
Year	2026
Teaching Period	Trimester 2

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Introduction

This document provides an outline of the subject, including description, learning outcomes, assessment requirements, learning resources and weekly topics. Read this outline in the first week of a trimester to familiarize yourself with the subject and learn what you need to do in order to successfully complete the subject.

Subject Information

Prerequisite

None

Credit Points

15

Description

In the modern Internet era, industries and organizations need to be prepared to defend against cyber threats and attacks. Stakeholders should be familiar with basic principles and best practices of cybersecurity to protect their businesses and personal information. In this subject, these principles and strategies for future cyber security are explored. Key topics include information security; ethical and legal practices; mitigating cyber vulnerabilities; and the process of incident response and analysis. The subject introduces the broad discipline of cybersecurity and outlines how to ensure the privacy, reliability, confidentiality, and integrity of information systems and mitigate against cyber threats and risks.

Learning Outcomes

Upon successful completion of this subject, you should be able to:

1. Describe key emerging cybersecurity practices, regulations and standards.
2. Demonstrate foundation skills in safeguarding data, systems and networks.
3. Compare approaches for cyber risk management used to address real world problems.
4. Identify approaches to digital forensics, application security and network security in the context of cyberspace.
5. Show understanding of data security, web security and cryptography and possible solutions to cyber threats.

La Trobe College Australia Transitional Attributes

All La Trobe College Australia Diploma subjects contribute to the following graduate capabilities:

1. Literacy and communication skills;
2. Inquiry and analytical skills;
3. Personal and professional skills;
4. Discipline specific knowledge and skills.

Study load

The subject is delivered over a 12-week teaching period, consisting of 1 x 2-hour lecture per week and 1 x 2-hour tutorial per week.

Students are expected to undertake additional hours for the preparation of lessons, regular revision of work, and completion of assessments.

Learning Resources

Prescribed Text

All resources available on the student portal.

Recommended Text(s)

Cybersecurity Essentials 2017, Charles J. Brooks, Philip Craig, Donald Short

Website

The student portal at <https://learning.sydney-campus.com/> provides access to news, your Uni email, important documents, your timetable, results and the Learning Management System called Moodle.

Assessment

Assessment Piece	Weighting	Week Due (exact date on LMS)	Subject Learning Outcome(s)	Course Learning Outcome(s)
Malware Analysis	25%	3	1,2	1,2,3,5
Threat Assessment	30%	8	2,3,4	1,2,3,5
Assignment	35%	11	1,2,3,4	2,5
Final Quiz	10%	12	All	1,2,5

Teaching Schedule

Week	Topic	Assessment
1.	The Cyber Story; Fundamental Principles of Security	
2.	Assets and Actors; Anatomy of a Breach	
3.	Intrusion; Cyber Kill Chain and Defence	
4.	Intrusion; Cyber Kill Chain and Defence	Assignment 1 (Malware Analysis)
5.	Monitoring and Logging in Cyber Intrusion	
6.	Risk Management and Incident Response	
7.	Risk Management and Incident Response	
8.	Incidence Response Case Studies	Assignment 2 (Threat Assessment)
9.	Basics of Digital Forensics and Case Studies	
10.	Data Security and Cryptography	
11.	Data Security and Cryptography	Assignment 3 (Case Study)
12.	Revision and Final Examination	Final Exam (Quiz)

Trimester 2, 2026 Dates

WEEK	WEEK COMMENCING
Week 1	29 June, 2026
Week 2	6 July, 2026
Week 3	13 July, 2026
Week 4	20 July, 2026
Week 5	27 July, 2026
Week 6	3 August, 2026
Week 7	10 August, 2026
Week 8	17 August, 2026
Week 9	24 August, 2026
Week 10	31 August, 2026
Week 11	7 September, 2026
Week 12	14 September, 2026
Final Exams	21 Sep – 1 October, 2026