# COIT12201 *Electronic Crime and Digital Forensics*
## Term 2 - 2024

Profile information current as at 14/05/2024 01:11 pm

# General Information

## Overview

This advanced unit provides you with a broad understanding of electronic crime and digital forensics in investigations of electronic criminal activities. In this unit, you will learn digital forensics procedures and tools, methods of using digital evidence in justice and legal issues in digital forensics. You will use industry leading software tools to conduct your own forensics investigation on realistic case studies. Completion of this unit enables you to pursue careers within an electronic crime investigation unit of law enforcement agencies, government departments, and businesses.

## Details

Career Level: *Undergraduate*
Unit Level: *Level 2*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

## Pre-requisites or Co-requisites

Pre-requisite: (COIT11233 or COIT11238) and (COIT13147 or COIT12206)
Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the Assessment Policy and Procedure (Higher Education Coursework).

## Offerings For Term 2 - 2024

- Brisbane
- Cairns
- Melbourne
- Online
- Rockhampton
- Sydney
- Townsville

## Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

## Website

This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.

## Class and Assessment Overview

### Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

## Class Timetable

**Regional Campuses**

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

**Metropolitan Campuses**

Adelaide, Brisbane, Melbourne, Perth, Sydney

## Assessment Overview

## Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the University's Grades and Results Policy for more details of interim results and final grades.

## CQUniversity Policies

**All University policies are available on the CQUniversity Policy site.**

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the CQUniversity Policy site.

## Previous Student Feedback

## Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

### Feedback from Unit Coordinator's reflection.

**Feedback**

The inclusion of authentic digital forensics scenarios in the online test enhances engagement and ensures a practical and comprehensive assessment of students' understanding.

**Recommendation**

Continue using authentic digital forensics scenarios in the online test.

### Feedback from Student Unit and Teaching Evaluations (SUTE) feedback and Unit Coordinator's reflection.

**Feedback**

Incorporating a simplified example of key tutorial activities in the lecture sessions can significantly enhance student understanding and application of the concepts.

**Recommendation**

In the lecture sessions, consider reviewing a simplified example of key activities covered in the tutorials for a better understanding.

## Unit Learning Outcomes

**On successful completion of this unit, you will be able to:**

1. Define electronic crime and digital forensics
2. Describe the role of digital forensic professionals in investigation and prevention of electronic crime in business environments
3. Apply a systematic approach to the capture, recording, and analysis of events in a digital forensic investigation
4. Discuss the legal issues involved in a forensic investigation and in current professional forensic practice
5. Prepare a design and report for a digital forensic investigation.

The Australian Computer Society (ACS), the professional association for Australia's ICT sector, recognises the Skills Framework for the Information Age (SFIA). SFIA is adopted by organisations, governments, and individuals in many countries and provides a widely used and consistent definition of ICT skills. SFIA is increasingly being used when developing job descriptions and role profiles. ACS members can use the tool MySFIA to build a skills profile.
This unit contributes to the following workplace skills as defined by SFIA 8 (the SFIA code is included):

- Digital forensics (DGFS)
- Network Support (NTAS)
- Penetration testing (PENT)
- Problem Management (PBMG)
- Incident Management (USUP)
- Information security ( SCTY)

The National Initiative for Cybersecurity Education (NICE) Framework defines knowledge, skills and tasks needed to perform various cyber security roles. Developed by the National Institute of Standards and Technology (NIST), the NICE Framework is used by organisations to plan their workforce, including recruit into cyber security positions.
This unit helps prepare you for roles within electronic crime investigation unit of law enforcement agencies, government departments, and businesses, contributing to the following knowledge and skills:

- K0003 Knowledge of laws, regulations, policies, and ethics as they relate to cybersecurity and privacy.
- K0117 Knowledge of file system implementations (e.g., New Technology File System [NTFS], File Allocation Table [FAT], File Extension [EXT]).
- K0622 Knowledge of controls related to the use, processing, storage, and transmission of data.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes

| — | N/A Level | ○ | Introductory Level | ● | Intermediate Level | ● | Graduate Level | ○ | Professional Level | ○ | Advanced Level |

## Alignment of Assessment Tasks to Learning Outcomes

| Assessment Tasks | Learning Outcomes | | | | |
|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| 1 - In-class Test(s) - 20% | ● | | | ● | |
| 2 - Written Assessment - 40% | | ● | ● | ● | ● |
| 3 - Online Test - 40% | ● | ● | ● | | ● |

## Alignment of Graduate Attributes to Learning Outcomes

| Graduate Attributes | Learning Outcomes | | | | |
|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| 1 - Communication | ● | | | ● | ● |
| 2 - Problem Solving | | | ● | | ● |
| 3 - Critical Thinking | | ● | ● | | |
| 4 - Information Literacy | | | | ● | ● |
| 5 - Team Work | | | | | ● |
| 6 - Information Technology Competence | ● | | ● | | |
| 7 - Cross Cultural Competence | | | | ● | |
| 8 - Ethical practice | | ● | | ● | ● |
| 9 - Social Innovation | | | | | |
| 10 - Aboriginal and Torres Strait Islander Cultures | | | | | |

## Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 17 June 2024

## Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.