In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.

COIT20267 *Computer Forensics*

Term 1 - 2022

Profile information current as at 26/04/2024 10:14 am

All details in this unit profile for COIT20267 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

The continual integration of computers and the Internet into business and personal activities is creating opportunities for crimes utilising these technologies. The investigation of these electronic crimes requires specialised computer-based techniques to collect and analyse evidence. This unit equips you with a broad understanding of how electronic crimes are conducted, as well as in-depth knowledge of computer forensic investigations. Through the use of industry-leading digital forensic tools in a laboratory environment, you will develop practical skills applicable to all phases of forensic investigations. You will learn different approaches for identifying, gathering and analysing digital evidence, as well as addressing legal issues in computer forensic investigations.

Details

Career Level: *Postgraduate*
Unit Level: *Level 9*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites

Pre-requisite: COIT20261 Network Routing and Switching
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 1 - 2022

No offerings for COIT20267

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 Postgraduate 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 Teaching team

Feedback

A Frequently Asked Question (FAQ) document could be helpful to overcome technical difficulties related to MindTap (for example, adding the link to the whitelist).

Recommendation

Work with the teaching team to develop a FAQ document to list helpful tips and resources

Feedback from Teaching team

Feedback

In Assignment two, students do not have many case studies to select from, and as a result have limited opportunity to apply a diverse set of computer forensics techniques.

Recommendation

Develop more case studies to be incorporated in Assignment two.

Unit Learning Outcomes

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

1. Discuss the different types of electronic crime and the need for a computer forensics investigation
2. Analyse the role of computer forensic professionals in enabling successful investigation and prevention of electronic crime in business environments
3. Apply a systematic approach in a digital investigation through the conduct of computer forensics procedures and the use of computer forensic tools
4. Apply the necessary steps required for collecting, storing, analysing and validating digital evidence
5. Explain the legal issues involved in a computer forensic investigation
6. Evaluate current industry best practices for analysing computer forensic case scenarios.

Australian Computer Society (ACS) recognises the Skills Framework for the Information Age (SFIA). SFIA is in use in over 100 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 at
https://www.acs.org.au/professionalrecognition/mysfia-b2c.html
This unit contributes to the following workplace skills as defined by SFIA. The SFIA code is included:

- Information Security (SCTY)
- Digital forensics (DGFS)
- Data analysis (DTAN)
- Testing (TEST)
- Network Support (NTAS)
- Application Support (ASUP).

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	6
1 - Online Quiz(zes) - 20%	•	•			•	
2 - Written Assessment - 35%	•	•	•	•		•
3 - Written Assessment - 45%			•	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
1 - Knowledge	○	○	○	○	○	○
2 - Communication	○	○	○	○	○	○
3 - Cognitive, technical and creative skills		○	○	○	○	○
4 - Research	○	○	○	○	○	○
5 - Self-management						
6 - Ethical and Professional Responsibility	○	○	○	○	○	○
7 - Leadership						○
8 - Aboriginal and Torres Strait Islander Cultures						

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes							
	1	2	3	4	5	6	7	8
1 - Online Quiz(zes) - 20%	○	○						
2 - Written Assessment - 35%	○	○		○		○		
3 - Written Assessment - 45%	○	○		○		○	○	

Textbooks and Resources

Textbooks

COIT20267

Prescribed

Guide to computer forensics and investigations
Edition: 6th edn (2018)
Authors: Nelson, B., Phillips, A., and Steuart, C.
Cengage Learning
Florence , KY , USA
ISBN: 9781337568944
Binding: Hardcover
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Supplementary

Lab Manual for Nelson / Phillips / Steuart Guide to Computer Forensics and Investigations
Edition: 5th edn
Authors: Blitz, A.
Cengage Learning
Florence , KY , USA
ISBN: 9781285079080
Binding: Paperback

View textbooks at the CQUniversity Bookshop

IT Resources

You will need access to the following IT resources:

Referencing Style

Information for Referencing Style has not been released yet.
This unit profile has not yet been finalised.

Teaching Contacts

Information for Teaching Contacts has not been released yet.
This unit profile has not yet been finalised.

Assessment Tasks

Information for Assessment Tasks has not been released yet.
This unit profile has not yet been finalised.

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.