

Unit of Study: ICT3052 Digital Forensics

Overview

In this unit students will acquire a practical understanding of how to scan and collect data from computer and networking systems. Students will gain in-depth knowledge of forensic processes and techniques, covering legal aspects of digital evidence and forensic investigation. Practical applications will allow students to experience the issues and opportunities of developing digital evidence.

Course(s)	Bachelor of Information Technology
Credit Points	6 credit points
Duration	12 weeks (10 teaching weeks; 1 revision week; 1 final assessment week)
Level	Undergraduate Advanced
Student Workload	Students should expect to spend approximately 10 hours per week over 12 weeks (totalling approximately 120 hours) on learning activities for this unit.
Mode(s) of Delivery	On campus, Blended
Pre-Requisites	BIS2001 Infrastructure and Networking
Unit Coordinator	As per current timetable
Contact Information	Consultation: 1 hour scheduled session

Unit Learning Outcomes:

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

- ULO1 Articulate the legal and ethical issues confronting the computer forensics investigator, and the principles for computer evidence.
- ULO2 Apply appropriate tools and techniques to collect and recover data from a variety of digital sources in a forensically sound manner.
- ULO3 Evaluate data form a digital crime scene to an evidentiary standard.
- ULO4 Create a defensible investigation report.

Weekly Schedule





Detailed information for each week's activities can be found on Unit's Weekly Modules in Canvas.

Week	Topic
Week 1	Introduction to Forensic Investigation
Week 2	Digital Evidence
Week 3	Investigation Process
Week 4	Forensic Labs
Week 5	Data Acquisition - Working with storage devices (disks, SSD, SAN or server based technologies)
Week 6	Forensic Investigation of Windows Systems
Week 7	Network Forensics
Week 8	Wireless and Mobile Forensics
Week 9	Web Applications
Week 10	Legal Preparation of Forensic Evidence
Week 11	Revision
Week 12	Final Assessments

Assessments

APIC awards common result grades, set out in the [Award of Grade Policy](#).

Detailed information for each assessment can be found on the Unit's Home Page in the Assessment Brief

Assessment Task	Type	Weighting	Due	Length	ULO's
Assessment 1: Laboratory Practicum Students undertake in-class assessments relating to <ul style="list-style-type: none"> • Reconnaissance & Preparation tools • "Real Time" Forensic Containment • Log & Network Analysis • Stenography 	Individual  Invigilated 	20%	Weeks 3, 6, 9, 11	(equiv. 2500 words)	ULO1 ULO2
Assessment 2: Case Study Prepare a written report based on a case study provided.	Individual 	40%	Week 10	3000 words	ULO1 ULO2 ULO3 ULO4
Assessment 3: Forensic Investigation Report Prepare a written report Forensic Investigation that will cover a particular aspect/s considered in the unit.	Individual 	30%	Week 12	(equiv 1500 words)	ULO1 ULO2 ULO3 ULO4

Equiv. – equivalent word count based on the Assessment Load Equivalence Guide.

Course Reserve

Course Reserve includes all required resources and reading material for the unit of study. You can access Course Reserve via [APIC Library](#) or via the Course Reserve link on the unit's homepage.

Prescribed text(s):

Nelson, B., Phillips, A., & Steuart, C. (2019). Guide to Computer Forensics and Investigations (6th Edition). Boston, MA. Course Technology

Other Recommended Resources:

Brooks, C. (2014). CHFI Computer Hacking Forensic Investigator Certification: All-in-One Exam Guide. New York: McGraw-Hill

Academic integrity

Ethical conduct and academic integrity and honesty are fundamental to the mission of APIC and academic misconduct will not be tolerated by the College. It is the responsibility of every student to make sure that they understand what constitutes academic misconduct and to refrain from engaging in it. Please refer to APIC's [Academic Integrity Policy](#) for further details.

Other Important Information and Links

<p>Special consideration</p> <p>If your academic work is impacted by significant documented illness, hardship, or other adverse circumstances beyond your control, you may make an application for Special Consideration. Please refer to the Assessment Policy for further details.</p>	<p>Late submission</p> <p>Penalties apply when work is submitted after the due date without approval. Please refer to the Assessment Policy for information about late submission.</p>
<p>Assessment appeals</p> <p>If you are concerned about a mark you have received for an assessment or final grade, you may apply to formally appeal the grade. Please see the Assessment Policy for further details.</p>	<p>Award of grades</p> <p>APIC awards common result grades, set out in the Award of Grade Policy.</p>
<p>Expectations of student conduct</p> <p>Students are expected to conduct themselves in a manner that is consistent with a safe and respectful study environment. More information can be found in the Student Code of Conduct.</p>	<p>Study resources</p> <p>APIC Library and Student Learning Support resources and services can be accessed via the Student Lounge or your Dashboard on the OLS (Canvas).</p>
<p>Student Services</p> <p>The Student Services team provides administrative support for students and handles enquiries about enrolment, timetables, important dates and submitting forms. More information can be found on the Student Services page on the OLS (Canvas).</p>	<p>Key dates</p> <p>Key dates through the academic year, including teaching periods, census, payment deadlines and exams can be found on the Academic Calendar section of the APIC website.</p>

Changes and Updates to the Unit of Study Guide

This Unit of Study Guide may be updated and amended from time to time. Students will be notified of any changes to the unit via the Online Learning System (Canvas) space for the unit.

This Unit of study Guide was last modified on 13th May 2024.