

# SEC705 Digital Forensics 1

School: School of Science, Technology and Engineering

2026 | Trimester 2

UniSC Sunshine Coast  
UniSC Adelaide

**BLENDED  
LEARNING**

Most of your course is on campus but you may be able to do some components of this course online.

Online

**ONLINE**

You can do this course without coming onto campus, unless your program has specified a mandatory onsite requirement.

*Please go to [unisc.edu.au](http://unisc.edu.au) for up to date information on the teaching sessions and campuses where this course is usually offered.*

## 1. What is this course about?

### 1.1. Description

This online course will introduce digital forensic processes including seizure, acquisition, analysis, and reporting of digital evidence. You will learn how to identify and seize digital evidence and become familiar with the tools, techniques, and procedures employed by digital forensics examiners to acquire forensic images and protect and preserve electronically stored information. You will learn how to examine and analyse digital evidence. You will also learn how to reach logical conclusions about digital evidence and how to report and present digital evidence.

### 1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
<b>BLENDED LEARNING</b>			
<b>Learning materials</b> – Asynchronous learning material	2hrs	Week 1	12 times
<b>Tutorial/Workshop 1</b> – On campus workshop	2hrs	Week 1	12 times
<b>Seminar</b> – On campus seminar	1hr	Week 1	2 times
<b>ONLINE</b>			
<b>Learning materials</b> – Asynchronous learning material	2hrs	Week 1	12 times
<b>Tutorial/Workshop 1</b> – Online workshop	2hrs	Week 1	12 times
<b>Seminar</b> – Online seminar	1hr	Week 1	2 times

### 1.3. Course Topics

Creation and verification of forensic images.

Safe evidence handling techniques.

iOS Devices: Overview, extraction techniques, data structures, and analysis.

Android Devices: Overview, extraction techniques, data structures, and analysis.

Expert report writing requirements and techniques.

## 2. What level is this course?

700 Level (Specialised)

Demonstrating a specialised body of knowledge and set of skills for professional practice or further learning. Advanced application of knowledge and skills in unfamiliar contexts.

## 3. What is the unit value of this course?

12 units

## 4. How does this course contribute to my learning?

COURSE LEARNING OUTCOMES	GRADUATE QUALITIES
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...
1 Use decision making and problem solving to identify, analyse, and understand digital evidence and digital artefacts	Creative and critical thinker
2 Solve complex technology related crimes.	Empowered
3 Seize and secure digital evidence in a safe and admissible manner.	Ethical
4 Document and report on interactions with digital evidence; Identify and utilise the appropriate software and hardware tools to support an investigation.	Empowered
5 Identify and explain the types of specialised technical and investigative methodologies used in digital forensics.	Knowledgeable
6 Prepare and present digital forensic reports in accordance with ethical and evidentiary requirements.	Knowledgeable Ethical

## 5. Am I eligible to enrol in this course?

Refer to the [UniSC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

### 5.1. Pre-requisites

SEC601 or enrolled in SC513

### 5.2. Co-requisites

Not applicable

### 5.3. Anti-requisites

Not applicable

### 5.4. Specific assumed prior knowledge and skills (where applicable)

Not applicable

### 5.5. Microcredential Information

Not applicable

## 6. How am I going to be assessed?

### 6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

### 6.2. Details of early feedback on progress

Using marking rubrics, students will participate in continuous peer and self-assessment tasks. Opportunities will be provided during tutorials for peer-review of responses to online tutorial questions.

### 6.3. Assessment tasks

DELIVERY MODE	TASK NO.	ASSESSMENT PRODUCT	INDIVIDUAL OR GROUP	WEIGHTING %	WHAT IS THE DURATION / LENGTH?	WHEN SHOULD I SUBMIT?	WHERE SHOULD I SUBMIT IT?
All	1	Practical / Laboratory Skills	Individual	25%	300 words each approx. for 8 weeks.	Throughout teaching period (refer to Format)	Online Submission
All	2	Examination - not Centrally Scheduled	Individual	35%	3 hours	Week 10	Online Test (Quiz)
All	3	Report	Individual	40%	3000 words approx.	Exam Period	Online Assignment Submission with plagiarism check

#### All - Assessment Task 1: Practical Exercises

<b>GOAL:</b>	The goal of this task is to develop the knowledge and technical skill necessary to undertake digital forensic examinations.		
<b>PRODUCT:</b>	Practical / Laboratory Skills		
<b>AUTHORSHIP STATEMENT:</b>			
<b>FORMAT:</b>	Students will be presented with a small image file as part of an ongoing case study and will identify and analyse artefacts on the image by applying techniques learned in the weekly tutorials in order to respond to short-answer questions regarding user-specific computer use and data on the image file. Students will be required to submit practical exercises weekly for 8 weeks (weeks 2 -9).		
<b>CRITERIA:</b>	<b>No.</b>		<b>Learning Outcome assessed</b>
	1	Use of decision making and problem-solving techniques	1 2
	2	Application of tradecraft skills	3 4
	3	Review and critique arguments to form strong expert opinions	1 6
	4	Identify and explain various digital forensic processes and methodologies	5
<b>GENERIC SKILLS:</b>			

### All - Assessment Task 2: Exam

<b>GOAL:</b>	Demonstrate understanding of digital forensic and investigation theory.												
<b>PRODUCT:</b>	Examination - not Centrally Scheduled												
<b>AUTHORSHIP STATEMENT:</b>													
<b>FORMAT:</b>	Students will sit an online exam.												
<b>CRITERIA:</b>	<table border="1"><thead><tr><th>No.</th><th></th><th>Learning Outcome assessed</th></tr></thead><tbody><tr><td>1</td><td>Use of decision making and problem-solving techniques</td><td>1 4</td></tr><tr><td>2</td><td>Identification and analysis forensic artefacts</td><td>2 4</td></tr><tr><td>3</td><td>Demonstrate a strong knowledge of digital forensic processes</td><td>5</td></tr></tbody></table>	No.		Learning Outcome assessed	1	Use of decision making and problem-solving techniques	1 4	2	Identification and analysis forensic artefacts	2 4	3	Demonstrate a strong knowledge of digital forensic processes	5
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<b>GENERIC SKILLS:</b>													

### All - Assessment Task 3: Forensic Examination Report

<b>GOAL:</b>	Develop technical documenting and reporting skills as well as affirm and build upon the technical competency developed throughout the course																		
<b>PRODUCT:</b>	Report																		
<b>AUTHORSHIP STATEMENT:</b>																			
<b>FORMAT:</b>	Individual You will be provided with digital examination media and a case study. You will play the role of a digital forensic examiner within the case study scenario which will provide a clearly defined scope for their examination and reporting. The final product should include a computer examination report and any ancillary files to be produced within the scope of the examination.																		
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## 7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

## 8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

## 8.1. Prescribed text(s) or course reader

You need regular access to the resource(s) below. Many texts are available as ebooks through the [Library](#) at no additional cost.

REQUIRED?	AUTHOR	YEAR	TITLE	EDITION	PUBLISHER
Required	Bill Nelson, Amelia Phillips, Christopher Steuart	0	Guide to Computer Forensics and Investigations	n/a	n/a

## 8.2. Specific requirements

This is an online course and will require access to a computer and the internet for at least 12 hours per week. The computer must have a modern processor and at least 200GB of storage available. A dedicated graphics card and SSD or faster storage is highly recommended. You may be required to download files in excess of 50GB.

## 9. How are risks managed in this course?

Health and safety risks for this course have been assessed as low. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the [online induction training for students](#), and following the instructions of the University staff.

## 10. What administrative information is relevant to this course?

### 10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

### 10.2. Assessment: Additional Requirements

#### **Eligibility for Supplementary Assessment**

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

- (a) The final mark is in the percentage range 47% to 49.4%; and
- (b) The course is graded using the Standard Grading scale

### 10.3. Assessment: Submission penalties

Late submissions may be penalised up to and including the following maximum percentage of the assessment task's identified value, with weekdays and weekends included in the calculation of days late:

- (a) One day: deduct 5%;
- (b) Two days: deduct 10%;
- (c) Three days: deduct 20%;
- (d) Four days: deduct 40%;
- (e) Five days: deduct 60%;
- (f) Six days: deduct 80%;
- (g) Seven days: A result of zero is awarded for the assessment task.

The following penalties will apply for a late submission for an online examination:

- Less than 15 minutes: No penalty
- From 15 minutes to 30 minutes: 20% penalty
- More than 30 minutes: 100% penalty

#### 10.4. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit <https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

#### 10.5. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The [Student Charter](#) sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

#### 10.6. General Enquiries

For course-specific questions, contact your teaching staff or Course Coordinator.

For other enquiries or to access support, please contact Student Central:

- [UniSC Student Central](#)
- [UniSC Adelaide Student Central](#)